The
CHEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER

Established 1859 28 Essex Street, Strand, London, W.C.2. Registered as a Newspaper

No. 3469
VOL. CXLVI AUGUST 3, 1946 Annual Subscription (with Diary) 25/-. Single copies 9d

WRIGHT, LAYMAN & UMNEY LTD.

DAKIN BROTHERS LTD., LONDON

FOR WORLD-WIDE SERVICE

AN ASSOCIATION
FOR THE MANUFACTURE OF PHARMACEUTICAL PREPARATIONS OF THE FINEST QUALITY AND THEIR DISTRIBUTION THROUGHOUT THE UNITED KINGDOM AND THE WORLD

All enquiries to be addressed to the registered offices at 46, Southwark St. London, S.E.1, England

Index to Advertisers pp. 5 & 6.

'MICAPON' Tablets

Calcium & Potassium Therapy in Migraine

'MICAPON' Tablets consist of potassium chloride and calcium lactate, in such proportions that the potassium and calcium ions are in the same ratio as that found in the blood-stream.

They are prescribed in the treatment of migraine.

'Micapon' Tablets (C.T. 810) are supplied in bottles of 100 and 1,000.

Parke, Davis & Co., 50 Beak St., London, W

Laboratories: Hounslow, Middlesex. *Inc. U.S.A., Liability, L*

Show 'Elasto'—It Sells on Sight!

It's advertised as a Chemist's Line

Elasto

REGISTERED

A PRODUCT OF BIO-CHEMICAL RESEARCH

Read What Users of 'Elasto' Say:—

(Original letters have been seen by a representative of "The Chemist and Druggist")

Varicose Veins

"As a sufferer of varicose veins, I must state that before using 'Elasto' I was tortured with tired and aching legs. After taking a month's supply of 'Elasto' I remark with emphasis that the feeling of tiredness and aching has vanished. To all sufferers of varicose veins I certainly recommend 'Elasto'—they are a boon."
AP 1180 —R. P.

Rheumatism

"I may say that I have found 'Elasto' a wonderful help. For years I suffered with rheumatism in feet and legs, and at times found it difficult to keep about. 'Elasto,' however afforded me immediate relief, and, although I was relieved of the pains and inconvenience, I have never ceased to take them regularly, as I have found them to act as a tonic as well, giving me energy that I previously lacked. I have recommended them to many others since."
AT 1108 —F. T.

Varicose Ulcers

"I have great pleasure in writing to say my legs are quite better and I cannot praise your 'Elasto' enough. I had suffered agonies with varicose ulcers; in fact I thought I should never get them better, but, thanks to 'Elasto,' my legs are completely cured."
AH 1263 —E. H.

THESE generous acknowledgements are an indication of the solid goodwill behind Elasto. Thousands of users, all over the country, are daily telling their friends of similar experiences with this fine remedy.

Recommend 'Elasto'—and a satisfied customer will recommend You!

★ 1/6 Profit on every sale

Retail Price 5/- per pkt. * Including purchase tax.

Wholesale 42/- per doz. * Including purchase tax.

A FEW SHOWCARDS STILL AVAILABLE

P.A.T.A.

The NEW ERA TREATMENT CO., LTD.

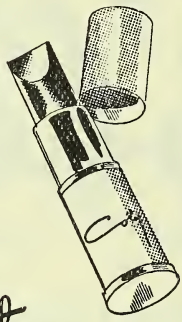
DEPT. R

CECIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.1

Advertisements like this

A LUXURY LIPSTICK

Dramatic accent, silken-textured like the lips of youth! . . . Smoothly, easily applied . . . Fashion-right shades for every costume . . . and in the **new** two-toned **metal** cases precision-fitted so the top stays on in your handbag!



Coty

Vibrant, Gitane, Dahlia, Bali, Moyen, Vif, Cassis

7/6 including tax

announce the return of

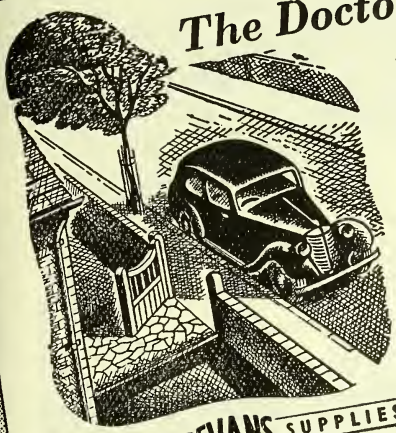
COTY LIPSTICK **in metal cases**

The favourite pre-war lipstick case is here again. Finished in delicate grey and pink enamel, it contains lipstick of classic Coty quality, kept safe by a specially fitted top. Many leading publications will bring th announcement to your custome Supplies will be included in yo Coty quota. Note shades abo

RETAIL PRICE INCLUDING TAX, 7/6

COTY (ENGLAND) LIMITED, 'COTY HOUSE', 3 STRATFORD PLACE, LONDON, W.1 MAYFAIR 7

This advertisement and others



The Doctor is at No. 23 . . .

AT TIMES OF SICKNESS, the doctor's knock at the door is the world's most comforting sound. But the doctor at the bedside is only *part* of the army which fights disease. Behind him, supporting him, is the research scientist in the laboratory. For in the laboratory are forged the *weapons* of healing —medicines, drugs, sera, vaccines — upon which both doctor and pharmacist rely.

In the vital field of research and discovery, the name of Evans holds a distinguished place. Behind the perfection of Evans products—biological, pharmaceutical, chemical—lies nearly 140 years of experience.

MEDICAL EVANS SUPPLIES

Your doctor trusts them

EVANS MEDICAL SUPPLIES LTD. LIVERPOOL AND LONDON

During the coming months many potential customers are going to see this new EVANS advertising which will appear in the leading National and Provincial papers and Weekly Magazines. Emphasising fully the importance of the part the Evans Organisation, jointly with the Doctor and Pharmacist, plays in maintaining the nation's health, this advertising is certain to encourage a wider acceptance of all products bearing the Evans name.

will help to sell more

MEDICAL EVANS SUPPLIES

EVANS MEDICAL SUPPLIES LTD., LIVERPOOL & LONDON

Makers of fine medical products for 140 years

THE NEW DISPLAY PACK containing 1½ dozen 9d. drum of Pestroy is now available.

Pestroy has firmly established itself as the leading insecticide powder f household and general use.

Combining DDT in correct proportion with other toxic ingredient Pestroy destroys insect pests wherever it is sprinkled. Although extreme powerful, it is entirely safe for use on domestic animals and birds.

Summer weather means a still bigger demand for this modern insecticid Make sure that you will have adequate stocks of Pestroy in 9d. and 2/- drum

PESTROY destroys pests

MANUFACTURED BY BOB MARTIN LIMITED SOUTHPORT LANC

INDEX TO ADVERTISERS

lbright & Wilson, Ltd. xix
merican Roland Corporation xvi
spro, Ltd. xviii
yrton, Saunders & Co., Ltd. 8

.B. Insecticides xiv
attles, Ltd. xiv
eautisales, Ltd. xx
eechams Pills, Ltd. 21
Belfast Telegraph" vii
ell, John, Hills & Lucas, Ltd. ..... Leader Page
io-Colloids, Ltd. 24
ob Martin, Ltd. 4
oxfoldia, Ltd. vi
radford Technical College xvii
riccas, Ltd. xxii
ritish and International Proprietaries, Ltd. ... xxii
ritish Cod Liver Oils (Hull & Grimsby), Ltd.... 16
ritish Disinfectant Co., Ltd. xiv
ritish Drug Houses, Ltd., The 6
ritish Dyewood Co., Ltd. iii
ritish Sidac, Ltd. vii
ritish Surgical & Drug Co., Ltd. xxi
rontan, Ltd. xvii
urgoyne Burbidges & Co., Ltd. i
urrough, James, Ltd. ..... Leader Page
urroughs Wellcome & Co. 27
ush, W. J., & Co., Ltd. 18

ampbell Laboratories, Ltd xvii
arillon Press, Ltd. iv
arus, A., & Sons, Ltd. vii
hemical & Essential Oils, Ltd. xxii
hemo-Plastics, Ltd. xiv
iba, Ltd. 28

Cooper, McDougall & Robertson, Ltd. 14
Coty (England), Ltd. 2
Cox, Arthur H., & Co., Ltd. ..... Cover iv
Crosse & Hooper, Ltd. v
Cussons, Sons & Co., Ltd. ..... Cover iii

Daniel, Richard, & Son, Ltd. 13
Dearborn (1923), Ltd. 23
Devon, D. 24
De Verminators, Ltd. v
Dring, J., Ltd. iii
Duncan, Flockhart & Co. 10

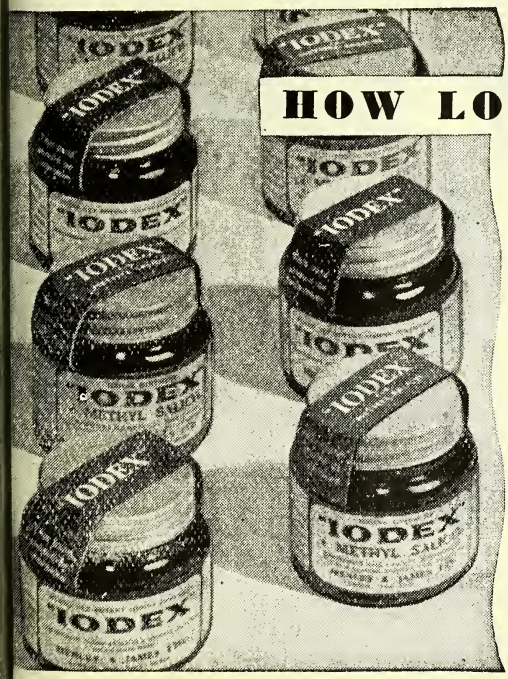
"Ekem" Engineers iv
Empire Rubber Co. xviii
English Grains Co., Ltd. 12
Evans Medical Supplies, Ltd. 3
Excel Proprietary Co. 24

Fassett & Johnson, Ltd. 12
Fems. Surgical Supplies, Ltd. xx
Fennings, A. 8
Field, C. W., Ltd. ii
Freeman, J., & Co., Ltd. 22
Freeman, William, & Co., Ltd. iv
Freudentheil, Smith & Co. ..... Leader Page
Fubex, Ltd. xv

Gardiner & Co. (The Scotch House), Ltd. xvi
Gardner, W., & Sons (Glos.), Ltd. v
Goddard, F. J. xxii
Graesser, R., Ltd. iv
Graesser Salicylates, Ltd. ii

Harley, T., Ltd. xiv
Harman Dietetic Laboratories, Ltd. xxii
Harrington's xxii
Hirst, Stuart, Ltd. ..... Leader Page
Hogg, M. C., & Co. vi

(*continued overleaf*)



HOW LONG IS A ROW?

The answer rests with you, but we should like to point out that a long row of 'Iodex' jars in your shop soon becomes a very short one.

It has been prescribed by doctors for over thirty years, and its popularity is ever increasing.

Keep good stocks of

'IODEX'

IODINE OINTMENT

1 OZ. JARS

TRADE PRICE: 16/6 per dozen plus 2/9 Tax.
RETAIL PRICE: 2/- each plus 3d. Tax.
Supplied also in 4-oz. Jars

MENLEY & JAMES LTD.
123 COLDHARBOUR LANE,
LONDON, S.E.5.

INDEX—(contd.)

International Chemical Co., Ltd. 11

Jeyes Laboratories, Ltd. xvi
Johns, Son & Watts, Ltd. .....Leader Page

King, G., & Co. xix
Klenfex Laboratories, Ltd. xxii
Khan, S. .....Leader Page

Lang, Jules & Son xx
Laporte, B., Ltd. iv
Leciferrin, Ltd. xix
Leda Chemicals, Ltd. 10
Lever, N. S. 15
London Pharmaceutical Laboratories, Ltd. 24

Madelox, Ltd. 15
Martin, Bob, Ltd. 4
Matthews, S., & Co., Ltd. 12
May & Baker, Ltd. 19
Menley & James, Ltd. 5
Midgeley & Parkinson, Ltd. 15
Mitchell, L. A., Ltd. v
Momand, Don S., Ltd. ix
Musterole Fine Products, Ltd. 23

New Era Treatment Co., Ltd. 1
North British Rubber Co., Ltd. xiii
Nutilis Products, Ltd. xiv

Olley, C., & Sons, Ltd. 15
Optrex, Ltd. viii
Organon Laboratories, Ltd. 10

Parke, Davis & Co. .....Cover ii
Peat Products (Sphagnol), Ltd. xx
Percenta, Ltd. vi

Pharmaceutical Laboratories, Geigy, Ltd. .....
Polak & Schwarz (England), Ltd. .....
Potter & Clarke, Ltd. .....
Preemo & Silks, Ltd. .....
Pride Products x

Rankin Bros. & Sons ..... Leader P
Reckitt & Sons, Ltd. .....
Reliance Rubber Co., Ltd. .....
Rendell, W. J., Ltd. .....
Revai & Co., Ltd. .....
Riddell Products, Ltd. .....
Ruff & Co. (Sales), Ltd. .....

Salter, George, & Co., Ltd. .....
Scientific Pharmacals, Ltd. .....
Scott, A. & R., Ltd. .....
Scram Co. .....
Sessions, Wm., Ltd. .....
Smith, T. J., & Nephew, Ltd. .....vi,
Steiner .....
Surgical Supply Co. .....

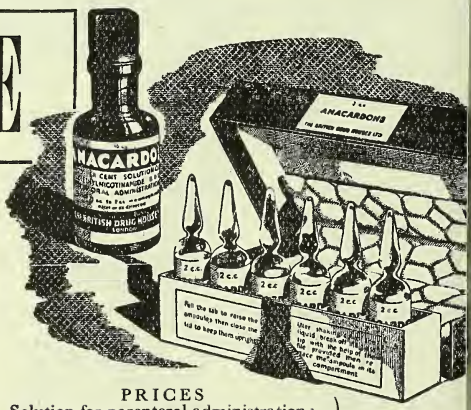
Tate, Emes & Co., Ltd. .....Leader P
Thackray, C. F., Ltd. .....
Thornton & Ross, Ltd. .....

United Chemists Association, Ltd. .....
United Glass Bottle Manufacturers, Ltd. .....
Unity Packing Co. .....

Vigon, J. J., & Co., Ltd. .....
Waide, Thos., & Sons, Ltd. .....
Wander, A., Ltd. .....
Wesley, Harold, Ltd. .....
Wilcox, Jozeau & Co., Ltd. .....Leader P
Wrens (Pty), Ltd. x
Wright, Layman & Umney, Ltd. .....Front Co

Zems, Ltd. .....

ANACARDONE



Anacardone is Nikethamide of the B.P. It is indicated in all forms of respiratory distress or cardiac insufficiency: for example, in surgical and obstetric shock, collapse following submersion, electric shock, narcotic poisoning; and cardiac and respiratory insufficiency due to pneumonia, influenza, and other infections.

Modes of Issue: in ampoules of a 25 per cent. solution for intravenous, intramuscular, or subcutaneous injection (Injection of Nikethamide B.P.) and in solution (flavoured) for oral administration.

Anacardone is advertised to the medical profession, and pharmacists will be well advised to keep an adequate stock.

PRICES

Solution for parenteral administration:
Box of 6 x 2 c.c. ampoules Retail 4/-
Wholesale per doz. 32/-
Box of 12 x 2 c.c. ampoules Retail 7/-
Wholesale per doz. 56/-
Box of 3 x 5 c.c. ampoules Retail 5/-
Wholesale per box 40/-
Box of 12 x 5 c.c. ampoules Retail 16/6
Wholesale per doz. 132/-

NOT SUBJECT T PURCHAS TAX

A product of

THE BRITISH DRUG HOUSES LTD. LONDON N.

Another famous

Ucal

product now available in limited supplies

UNITED CHEMISTS ASSOCIATION LTD
UCAL WORKS · CHELTENHAM

FENNINGS

FAMOUS FOR OVER 80 YEARS

PATA

FENNINGS' FEVER MIXTURE .. .. **1/3** a bottle

(If difficult to obtain write direct to Messrs. SUTTON & SONS, 12 Brandon Rd., London, N.7.)

FENNINGS' LITTLE HEALERS

For Coughs, Colds, Bronchitis, etc. **1/3** and **3/-**. Also **6/-** Carton of 12 Packets, retailing at **6d.** each.

FENNINGS' OINTMENT. Demand Steadily Increasing

For Cuts, Burns, Bruises, Chilblains, and all skin irritations. **1/3** a tin

FENNINGS' WHOOPING COUGH POWDERS
FENNINGS' WORM POWDERS
FENNINGS' STOMACH STRENGTHENERS } **1/3** and **3/-** boxes

FENNINGS' RHEUMATIC AND ERYSIPELAS DROPS— **1/3** a bottle

Please address orders and inquiries to your Wholesaler

N.B.—FENNINGS' COOLING POWDERS (Children's and Adults') are still in short supply, but every endeavour is being made to execute orders

PROPRIETORS: **THE TRUSTEES OF ALFRED FENNINGS (DECEASED)**
COWES, Isle of Wight

DRUGGISTS' SUNDRIES

THE MOST COMPLETE
SERVICE IN PHARMACY
BUILT OVER 80 YEARS

34 HANOVER STREET, LIVERPOOL, 1

AYRTON
SAUNDERS
& CO. LTD.

Modern Salicylate Therapy

THE popularity of acetylsalicylic acid is undoubtedly due to the fact that it is one of the most effective non-narcotic analgesics available. Often, however, its use has been discarded by the physician on account of the possibility of its irritating the gastro-intestinal tract.

'Alasil' provides the beneficial therapeutic effects of acetylsalicylic acid in such a form that it is acceptable even by disordered digestions. This tolerability is due to the fact that it combines acetylsalicylic acid with Dibasic Calcium Phosphate and 'Alocol,' an effective gastric sedative and antacid.

Since 'Alasil' is so well tolerated its use can be pushed or prolonged to the desired extent. 'Alasil' is, therefore, an analgesic, antipyretic and sedative, which can be employed with complete confidence in all the many conditions in which acetylsalicylic acid is indicated.

Alasil Tablets

Aspirin with a Difference

Retail Prices : Bottles, **1/5** *and* **2/10**
Including Purchase Tax

Trade Prices : **11/3** *and* **22/6**, *plus Purchase Tax*

On the P.A.T.A.

A. Wander, Ltd., London, S.W.7
Works, Laboratories and Farms: King's Langley, Herts.

Duncan

D.M.P. MIDGE CREAM

(DUNCAN)

Recent tests conducted for the Department of Health for Scotland have shown that dimethylphthalate (D.M.P.) in a 40 per cent emulsion provides effective skin protection against midges. D.M.P. Midge Cream (Duncan) is an elegant water-miscible emulsion containing 40 per cent D.M.P. Officially approved, it is exempt from purchase tax and Limitation of Supplies control.

Issued in 2 oz. jars
Retail **1/3: 10/6** doz.

Another of the profitable Duncan Counter Lines

DUNCAN, FLOCKHART & CO.
EDINBURGH LONDON

PIONEERS
in Hormone Therapy

PROGESTERONE, or Progestin, has important applications in conditions such as inadequate corpus luteum formation, impaired fertility, dysmenorrhœa associated with premenstrual tension. The research on this and other hormones by the Organon Laboratories contributed materially to their reputation as pioneers in hormone therapy.

ORGANON LABORATORIES LTD.
BRETTENHAM HOUSE, LONDON, W.C.2
Telephone: Temple Bar 6785
Telegrams: Menformon, Rand, London

A "LEDA" PRODUCT

LEDA DUSTING POWDER

A FINE BORATED POWDER, ATTRACTIVELY PACKED IN SPRINKLER TINS

A sales-compelling 1/6d line you must keep in stock. Supplies obtainable from your usual wholesaler

LEDA CHEMICALS LTD., ALPHA WORKS, ARCHWAY ROAD, LONDON, N.19.
TELEPHONE: ARCHWAY 4877.

Sole Agents for N. Ireland:
WHYTE, REID & MITCHELL, LTD.,
61/63, Donegall Pass, Belfast.
Sole Agents Scotland:
SOUTHERN MANUFACTURING CO. LTD.,
187, St. Vincent Street, Glasgow, C.2.

HOW MANY SUFFER FROM INDIGESTION DAILY?

Nobody knows. But it is certainly a large number. And the demand for antacids to relieve that indigestion is a large one; a demand that comes from all classes and every adult age.

'Bisurated' Magnesia is your profitable answer to that demand. In its tablet form, 'Bisurated' Magnesia can be carried easily in handbag or pocket. The powder — plain or mint-flavoured — is recommended for night-time doses. You can, therefore, in many cases make two sales at once. Remember that 'Bisurated' Magnesia is strongly advertised all over the country and will send customers to *your* shop. Make sure you have stocks to satisfy them.

'Bisurated' Magnesia tablets and powder both retail at 1/5 and 2/10 including purchase tax. Trade price 12/- & 24/- a dozen respectively

Additional quantity discounts:

£3 5% £5 7% £10 10% carriage paid on £3 parcels or over.

Special display bonus of 14 to the dozen for 14 days window or counter display.

'BISURATED' Magnesia

INTERNATIONAL CHEMICAL COMPANY LTD.,
CLIFTON HOUSE, EUSTON ROAD, N.W.1.

CUSTOMERS *WANT* THE LARGE 24/- SIZE

You can order it!

We are pleased to draw attention to the fact that

5/- and **24/-** Bottles of

CURICONES

are always available through all leading wholesalers

We draw special attention to this because, in recent weeks, many instances have come to light of intending purchasers being informed that these sizes are unobtainable

ORDER THROUGH YOUR USUAL WHOLESALER

CURICONES

For the relief of Rheumatism and kindred troubles

STEPHEN MATTHEWS & CO., LTD.
19-21 FARRINGDON ST., LONDON, E.C.4

Introducing-

Supol

HAEMORRHOIDAL SUPPOSITORIES

FOR RAPID RELIEF

A new and highly ethical product containing benzo caine and ephedrine. SUPOL is designed to giv immediate relief and lasting comfort for hæmor hoidal pains, rectal irritation, etc. NOW BEIN ADVERTISED. Distribution through chemists only

ISSUED IN BOXES OF 12 SUPPOSITORIES.

PUBLIC price **3/4** inc. tax

INTRODUCTORY BONU

APPLY:—

Sole Distributors: FASSETT & JOHNSON, LTD 86 CLERKENWELL ROAD, LONDON, E.C

THAT MEANS

Yestamin

VITAMIN YEAS

N TABLETS *Vitamin B1, 30 I.U. per gram. Riboflavin B 65 mcgs. per gram. Niacin. 455 mcgs. per gra*

1/1½ PER 100 ★ 3/- PER 300

TRADE TERMS

Bottles of 100 Tablets: Retailed at 1/1½; 9/- p dozen. Bottles of 300 Tablets: Retailed at 3/- 24/- per dozen. Less 5% cash in 14 days. *Windo and Counter Display Material available.*

THE ENGLISH GRAINS CO. Ltd., Burton-on-Tre

An Apple A Day

. . . keeps the doctor away — perhaps. As we don't sell apples we are unable to say, but we do make hundreds of products for the dispensing chemist which we believe are better than apples for guarding the health of his customers.

Richard Daniel & Son Ltd. Derby

MANUFACTURING CHEMISTS
OFFICE & WORKS: MANSFIELD ROAD, DERBY
'Phone: Derby 4266 (3 lines) 'Grams: Dania, Derby

THE CHEMISTS' PRINTERS

FOR OVER SIXTY YEARS

THOMAS WAIDE & SONS, LTD.
KIRKSTALL HILL
LEEDS

SAMARITAN *Ointments*

are again freely available in a wide range of titles including Chilblain, Lanoline, Wintergreen, Zinc and other B.P. and B.P.C. formulæ. Several exclusive prescriptions are also included in the series.

●

Prices and Samples on application.

TR 132

THORNTON & ROSS LIMITED
Manufacturing Chemists
LINTHWAITE · HUDDERSFIELD

COOPER'S HOUSEHOL INSECTICIDE

— use DDT scientifically

in dozens { Flyspray - - - 3/6, 6
Moth Spray 2/6. Sprayers 4

½-*grosses Small* { Insect Powder - 1/-, 1/6, 2
¼-*grosses Med.* { Moth Powder - - 1/6, 2
1 *dozens Large* { Bin Powder - - 1/3, 2

Write for Trade List.

COOPER, McDOUGALL & ROBERTSON LT
Berkhamsted, Herts

PREEMO

PERFUME ESSENCES

Manufacturers and Chemists of repute know that to produce Beauty and Toilet Preparations of quality, the base-forming Preemo Perfume Essences give that delightful fragrance of the natural Perfume, and that for purity, economy and ease in use there is nothing to compare with PREEMO.

THE "ESSENCE" OF A GOOD PERFUME.

PREEMO LIQUID COLOURS

For Lotions, Frictions, Shampoos, Bath Salts, Oils, Creams, Pomades, Powders and Perfumes.

PRICE LIST ON REQUEST

PREEMO & SILKS TOILET CO.,
330, KILBURN HIGH ROAD, LONDON, N.W.6 PHONE: MAIDA VALE 3

N.E. 100.

SOUTHON LABORATORIES

ESõBAN

Cream of Calamine

ESOBAN Cream of Calamine, the most recent advance in calamine treatment incorporates the natural skin oils (unsaturated fatty acids) of ESOBAN OINTMENT and has many advantages over ordinary calamine preparations. Promptly relieves irritation — soothing to the most sensitive skin. Advertised to doctors and nurses for

ACNE, ECZEMA, ERYTHEMA, HERPES, URTICARIA, CHAFING, ETC.

4 oz. bottle 2/6 (inc. Pur. Tax)

Subject to 33⅓% discount

P.A.T.A.

ORDERS AND ENQUIRIES TO

Sole Distributors: **CHAS. F. THACKRAY LTD., Park Street, Leeds, 1.**

A Product of **SOUTHON LABORATORIES LIMITED, LONDON, S.W.15.**

GROUND

DRIED YEAST

MIDGLEY & PARKINSON, LTD.

WARREN WORKS, PUDSEY, LEEDS

SPECIAL OFFER— *5 hand written showcards for 10/- Post Free.*

Three lettered "Saccharin Tablets", one lettered "Closed" and one "Open".

Orders despatched within one week.

Enquiries also invited for individually—designed posters,

N. S. LEVER, 42, Waterpark Road, Broughton Park, Manchester 7.

CORKS!

STOPPERS. ETC.

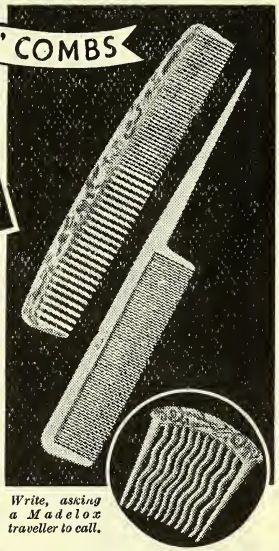
C. OLLEY & SONS LTD.

CAMPERDOWN ST. & GT. ALIE ST

LONDON, E.1

Established 1844

'MADLOX' COMBS



Enquiries welcomed. Supplies limited. Allocation made in strict rotation as stocks become available.

Existing customers will, however, continue to receive small regular deliveries. Nevertheless our wide ranges of other goods are well worth inspection.

Write, asking a Madelox traveller to call.

MADELOX LIMITED

The Leading House for Toilet Requisites and Sundries

168 · CORPORATION STREET · MANCHESTER · 4.

M.6

SevenSeaS

COD LIVER OIL

Presents to the chemist the best opportunity for increasing turnover and profits. The public have never before been so fully aware of their need for more fats and more vitamins and SEVENSEAS is the best answer for both.

It is to the chemist's advantage to render National Service by pushing sales

ISSUED BY BRITISH COD LIVER OILS (HULL & GRIMSBY) LTD.
ST. ANDREW'S DOCK, HULL.

The Sign of the Virgin

VIRGO

KI was the Euphratean name for Virgo, meaning the Corn in the Ear. The spikes carried and not the holder of them was the original object of attention. The sign coincides with our harvest, not only of grain but many medicinal plants, which come to us from farms scattered over the British Isles.

Drug Merchants & Manufacturing Chemists

POTTER & CLARKE LTD

EST·1812

LONDON & MANCHESTER

D.D.T.

(dichlor-diphenyl-trichlorethane.)

Immediate delivery from stock
Please write for particulars

Bush

WJ BUSH & CO LTD · LONDON E8 · ENGLAND

M&B

pharmaceutical products

BARBITONE B.P.
SOLUBLE BARBITONE B.P.
PHENOBARBITONE B.P.
SOLUBLE PHENOBARBITONE B.P.

These and other barbiturates manufactured in the M & B works at Dagenham are now in adequate supply and orders will receive prompt attention.

Telephone enquiries to Ilford 3060 (Extension 72).

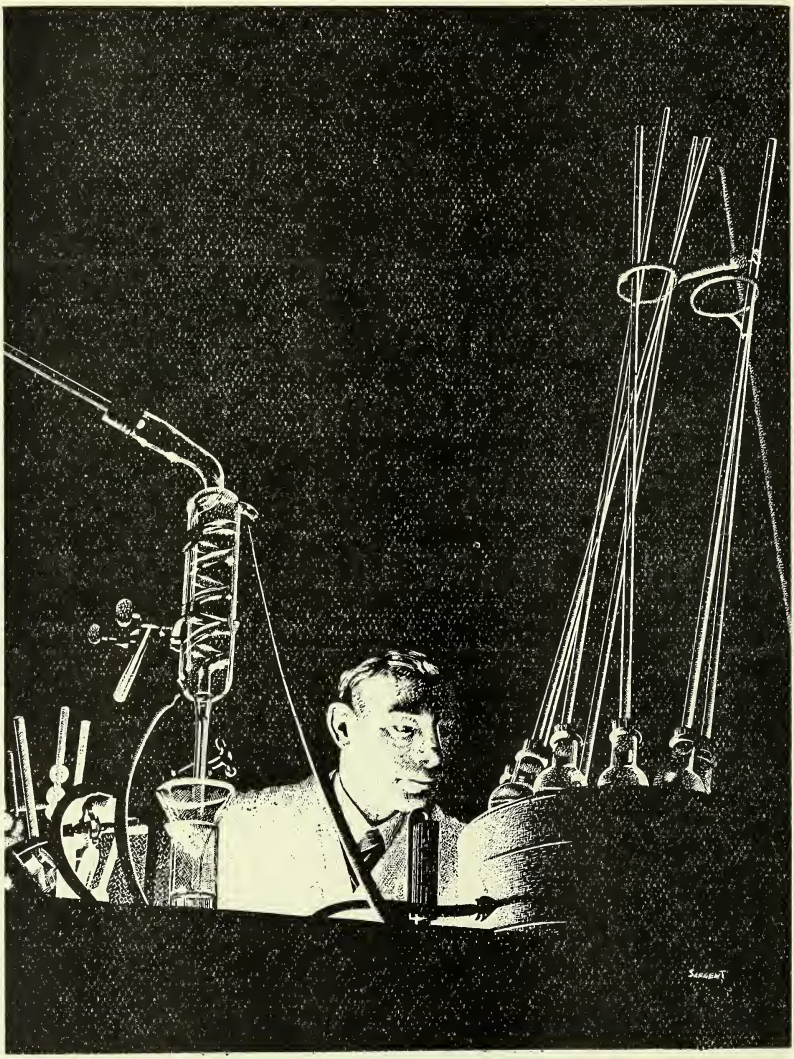
MAY & BAKER LTD.

DAGENHAM ENGLAND

PLANET BRAND

Manufacturers of Fine Chemicals since 1834

CH. 2018



Polak & Schwarz
(ENGLAND) LTD.

PRODUCERS OF PERFUME BASES, FLOWER OILS,
SOAP PERFUMES, ESSENTIAL OILS AND AROMATIC CHEMICALS

50, Great Cambridge Road, Enfield, Middlesex. 'Phone: ENField 3244-5 and 25

Agents for Australia: BLOK VAN ROOYEN & Co. Pty. Ltd., Box 948, Sydney, Australia.

BEECHAM'S COMBINED ORDER FACILITIES

now include

PHOSFERINE

Details of Special Terms

Beechams Pills Ltd., have taken over the selling agency for the products of Phosferine (Ashton & Parsons) Limited, Watford, Herts. The following products, therefore, are now available along with the existing Beecham Group Lines already supplied from St. Helens:

PHOSFERINE (TABLETS & LIQUID)
ASHTON & PARSONS INFANTS' POWDERS
SANACINE TABLETS
KEMNOS OINTMENT

The list prices for the Phosferine preparations remain as hitherto, but in order to provide you with combined order facilities, the terms have been adjusted as follows:—

A CASH DISCOUNT OF 2½%
AND
10% ALLOWANCE FOR WINDOW DISPLAY AND/OR ADVERTISING SERVICE

These terms apply to orders as follows:

(a) Composite order for Beecham products, Phyllosan and Phosferine lines, with a minimum quantity of £5 . 0 . 0 value.
(b) Separate orders for Beecham products, Phyllosan, or for Phosferine lines to the minimum value of £2 . 0 . 0

MONTHLY ACCOUNT—CARRIAGE PAID

All Enquiries Should Be Addressed To

BEECHAMS PILLS LTD., ST. HELENS, LANCS

Telephone: St. Helens 2241 *Telegrams: Beecham, St. Helens*

46/6

This is "Sparkie," who will appear in the SPA Film to be released in nearly 600 cinemas.

It has everything — quality, fine finish, and attractive appearance. Costs very little more—but gives much more in extra wear. A P.A.T.A. line—nationally advertised in press and films.

John Freeman & Co., Ltd.
"Spa" Brush Works, Chesham, Bucks.

KERODERM

BRAND OINTMENT

a new agent in the treatment of skin affections

NOW SUPPLIED TO THE CHEMIST TRADE

— THROUGH WHOLESALERS —

Following extensive clinical trials and successful wartime treatment of dermatitis in industry, KERODERM now offers the chemist, in a *new product*, valuable bio-chemical elements proved highly effective in the treatment of skin affections.

PRICES

TRADE 20/- per doz. tubes (plus P.T. 16⅔%).

MEDICAL 2/4d. per tube (including P.T.).

RETAIL 2/9 per tube (including P.T.).

Advertised to the MEDICAL PROFESSION

MADE IN ENGLAND

full details from

SCIENTIFIC PHARMACALS LTD., INNOXA HOUSE, BALLS POND ROAD, LONDON, N.1.

MERCOLIZED WAX

Although supplies are strictly limited, every chemist and wholesaler who purchased direct from us in the basic period will receive a quota in proportion.

CLYNOL BERRIES for OBESITY

however are available to all. Please send your enquiries to our distributors :—

POTTER & MOORE, LTD
Lavender House,
Seymour Road,
LEYTON, E.10

DEARBORN (1923) LTD.

"Kern House," 36/38 Kingsway, London, W.C.2

M.O.

Registered Trade Mark

MAGNESIA OIL

What M.O. definitely does not cause:

DISTENSION
ERUCTATION
ANAL LEAKAGE
TENESMUS
IRRITATION
UTERINE ACTIVATION
SUPERVENING STASIS
HABITUATION

What M.O. definitely does effect:

EVACUATION
REGULAR HABIT
ALKALINE REACTION
ADSORPTION
ARREST OF PUTREFACTION
MUCOSAL BLANDNESS

We regret that owing to the present shortage of medicinal paraffin we can until further notice supply M.O. (Magnesia Oil) in

16 oz. size only.

MUSTEROLE FINE PRODUCTS CO. LTD.
BROOK HOUSE, PARK LANE, W.1.

P.A.T.A.

Sole Distributors:
THOS. CHRISTY & CO. LTD., FARNHAM, SURREY

'SUPER SHAVE' for Super Sales

and for the perfect BRUSHLESS shave with after-shaving freshness!

'SUPER SHAVE,' the last word in brushless shaving creams, is fast becoming first favourite. . . Display and recommend 'SUPER SHAVE' and see how it speeds up sales as well as speeding up shaving.

'SUPER SHAVE' represents SUPER VALUE plus QUALITY to merit your confident recommendation. Stock up NOW for steady, satisfactory sales.

BRUSHLESS
SUPER SHAVE
SOAPLESS

RETAILS AT
1/10 4 oz. Jar
1/2 2 oz. Jar

Obtainable at Chemists and Hairdressers' Sundriesmen

LONDON PHARMACEUTICAL LABORATORIES, LTD. 24 THORNSETT ROAD, LONDON, S.W.18

EXPORT INQUIRIES ARE INVITED

DEVON LILAC TALCUM POWDER

★ *Attractive Pack*
★ *All metal (colour sprayed) sprinkler containers*
★ *Delightfully perfumed*
★ *Sells on sight*

FOR EXPORT ONLY

D. DEVON, Manufacturing Chemist
9 Norfolk Place, LONDON, W.2
Telephone: PADDINGTON, 2714

SD2

The Symbol of PERFECT Skin Health

A revolutionary product for the treatment of skin illnesses with unusual penetrative power. Sold under a money-back guarantee of satisfaction. Liquid and cream. Prompt deliveries.

BIO-COLLOIDS, LTD., ALTRINCHAM, CHES.

P.A.T.A.

BC20

About **TRILLE SHAMPOO**

ANNUAL SALE NOW 5 MILLION

It is nationally advertised

TRILLE is the *only* superfatted soap shampoo and cannot dry the hair. It will quickly correct scurf.

It is the most profitable shampoo you can handle. *Terms:* **48/-** *per gross (inc. P.T.)* **5** *gross less* **10** *p.c. i.e.* **£11/2/0**

Obtainable from all leading wholesalers or direct from:

THE EXCEL PROPRIETARY COMPANY,
Elgar Place, Ramsgate, Kent.

WHAT IS M.O.F.?

When to Recommend This Fortified Infant Cereal Food

M.O.F. is a finely sieved oat flour fortified with Vitamin D, Calcium, Phosphorus and Iron and specially processed for quick cooking.

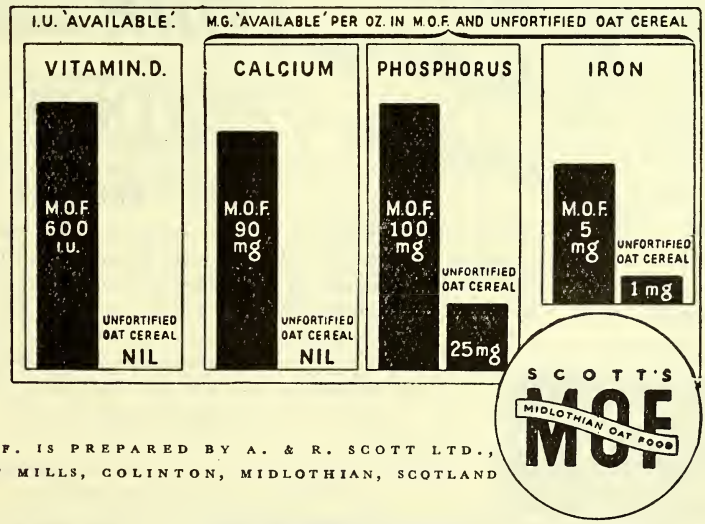
WHEN AND HOW TO GIVE IT

The use of M.O.F. normally begins with the introduction of mixed feeding. It should be made to a thick consistency and may be spoon fed before the normal breast or bottle feed. Small quantities given at first should be increased as the infant progresses, M.O.F. forming one of the staple factors of a mixed diet.

Where artificial feeding must start at an early age M.O.F. can be given as from 3 months.

HOW DOES IT COMPARE WITH OTHER CEREAL FOODS?

One of the reasons why progressive medical opinion recommends M.O.F. is because it is more than a cereal. M.O.F. is a fortified food. How it compares with non-fortified infant cereals can be seen in this chart.



M.O.F. IS PREPARED BY A. & R. SCOTT LTD., WEST MILLS, COLINTON, MIDLOTHIAN, SCOTLAND

RIDDOBRON INHALANT

IS NOW UNIVERSALLY RECOGNISED AS
THE MOST EFFICIENT TREATMENT FOR

ASTHMA, BRONCHITIS AND EMPHYSEMA

Why? Because it overcomes the immediate cause of attack. The results are extraordinarily Effective. It gives the most speedy and complete Relief yet known to Medical Science.

A Dual Treatment

SPASMOPURIN Suppositories effectually supplements the **RIDDOBRON** inhalant in cases of Chronic Bronchial Asthma associated with accumulation of Phlegm and difficult Expectoration by rectal administration, as they have a powerful antispasmodic, diuretic, vasodilative, and antidysmenorrhœic effect.

A suitable Inhaler is essential for Successful Treatment. The Therapeutic effect of an Inhaler increases in ratio to the fineness of atomisation, and the PNEUMOSTAT, SUPER PAG, or DRITAX is the answer to this problem.

RIDDELL PRODUCTS LIMITED
AXTELL HOUSE, WARWICK ST., LONDON, W.1

P.A.T.A.

NOW is the time to build up YOUR sales with a

'PENTNOR'
QUALITY PRODUCT

which will be asked for by your customers. We have an excellent selection of Toilet & Beauty Preparations suitable for Men and Women and specialities for the Children. Send your orders immediately and secure priority delivery.

Distributors for Scotland & Northern Ireland:
Pharmaceutical Distributors (Glasgow) Ltd.,
187, St. Vincent Street, Glasgow, C.2.

RUFF & CO. (SALES) LTD., Pentnor Laboratories,
128, Atkins Road, London, S.W.12.

PETHIDINE

HYDROCHLORIDE

'B.W.& CO.'

for the control of pain

For the relief of pain of all types, and for pre- or post-operative use, Pethidine Hydrochloride possesses many of the qualities of the ideal analgesic. After oral or parenteral administration, its action is prompt yet sustained, and relatively free both from narcotic effect and from undesirable side effects.

For oral administration

'TABLOID' BRAND PETHIDINE HYDROCHLORIDE

25 mgm. and 50 mgm. each in bottles of 25, 100 and 500

For injection

'HYPOLOID' BRAND PETHIDINE HYDROCHLORIDE

50 mgm. per c.c., in 1 c.c. and 2 c.c. ampoules (each in boxes of 12 and 100) and in rubber-capped bottles of 50 c.c.

BURROUGHS WELLCOME & CO.

(THE WELLCOME FOUNDATION LTD.)

LONDON

ASSOCIATED HOUSES: NEW YORK MONTREAL SYDNEY CAPE TOWN BOMBAY SHANGHAI BUENOS AIRES CAIRO

SURFACE ANAESTHESIA

with

NUPERCAINE

"Fortunately, Nupercaine is a complete substitute for cocaine."
Practitioner, 1936, 136, 509

NUPERCAINE LOZENGES

each containing 1 mg., produce a prolonged anaesthesia of the mucous membranes of the mouth and throat, alleviate the discomfort of sore throat and allay post-tonsillectomy distress. *Boxes of 15 and Bottles of 100)*

NUPERCAINAL

a 1 per cent. ointment producing prolonged analgesia in chaps, herpes zoster, burns, sunburn, anal fissure, haemorrhoids, pruritus. *(Tubes of 1 oz.)*

NUPERCAINE SUPPOSITORIES

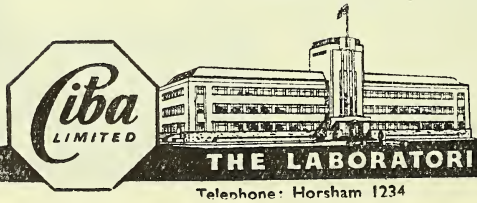
each containing 0.012 g., may be employed in the treatment of anal fissure and painful haemorrhoids or, post-operatively where a prolonged action is desired. *(Boxes of 5)*

NUPERCAINE 2% SOLUTION

for anaesthesia of the mucous membranes of the ear, mouth, throat and nose. May be employed topically in proctology. *(Bottles of 30 c.cm.)*

NUPERCAINE LUBRICANT

an efficient anaesthetic lubricant containing 10% for use with tracheal tubes only, facilitates introduction and renders their presence more tolerable. *(Containers of 1 oz.)*



Supplies through usual channels
Price list on request

THE LABORATORIES • HORSHAM • SUSSEX

Telephone: Horsham 1234 Telegrams: Cibalabs, Horsham

The
CHEMIST AND DRUGGIST
For RETAILER — WHOLESALER — MANUFACTURER
Published Weekly at
28 ESSEX STREET, STRAND, LONDON, W.C.2
Telegrams: "Chemicus, Estrand London" Telephone: Central 6565 (10 lines)

CONTENTS

	Page
A Space-saving Dispensary (Pictures)	141
Business Changes	137
Canadian Notes	154
Chief Officials of Drug and Pharmaceutical Organisations, No. 24	151
Company News	134
Correspondence	160
Deaths	135
Disintegration Tests for Tablets	147
Editorial Articles:—	
Streptomycin, B.C.G., and Tuberculosis	145
Far-Eastern Produce	145
Examination Results	142
Herb Crop Report	146
Legal Reports	132
Marriages	135
National Pharmaceutical Union	143
Overseas Trade News	155
Penicillin Dispensing Fees	138
Penicillin for Veterinary Purposes	139
Personalities	135
Pharmaceutical Society of Northern Ireland: Council Meeting	150
Science Papers	152
The Week in Parliament	140
Topical Reflections	133
Trade Marks	160
Trade Notes	136
Trade Report	156

NEWS OF THE WEEK

New Bristle Schedule.—A new schedule of bristle contents for brushes has been issued recently by the Board of Trade; it includes specifications for hair, nail, tooth, dental plate, and shaving brushes.

D.D.A. Authorities Restored.—The Secretary of State has restored to Kingsley Eric Lawton, L.D.S., R.C.S., Eng., authorities granted by the Regulations under the Dangerous Drugs Act, 1920.

Industrial Design Exhibition.—A two-day conference on industrial design is to be held in Central Hall, London, on September 26 and 27 under the sponsorship of the Council of Industrial Design and the Federation of British Industries.

Rape Oil Sales Restriction.—Chemists are reminded by the Ministry of Food that rape oil may only be issued to the public in the form of made-up medicines, owing to the shortage of this oil. It should not be sold by retail.

Soap Rationing Orders Consolidated.—A new order issued recently by the Ministry of Food (S.R. & O., 1946, No. 1,139) re-enacts in consolidated form the Soap (Licensing of Manufacturers and Rationing) (No. 2) Order, 1945, and its amendments. The only alterations made are those which concern the use of the new rationing documents valid for the rationing year which began on July 21, 1946. Copies of the order may be obtained from H.M. Stationery Office, price threepence.

Welfare Foods Order.—An Order issued by the Ministry of Food (S.R. & O., 1946, No. 1,148) makes statutory provision for the Welfare Foods Scheme under which milk, vitamin products and other welfare foods are supplied (at reduced cost or free) to expectant mothers and to children under five. The Order regulates the supply of affected foods other than milk from Ministry of Food distribution centres and makes general provision for the issue of coupons and other documents. Under the Order, which came into operation on July 21, cod-liver oil compound and vitamin A and D tablets are free in all cases. Copies of the Order, price threepence each, may be obtained from H.M. Stationery Office.

Points for Rusks.—The Ministry of Food states that one bread unit must be surrendered for 7 oz. of rusks.

Guernsey Rusks Supply.—By order of the local authorities, the supply of rusks in Guernsey, which was limited to invalids and babies, has been transferred from Guernsey chemists to the grocery trade.

Southend Pharmacists' Outing.—Members of the Southend Branch of the Pharmaceutical Society visited recently the works and biological research laboratories of May & Baker, Ltd., Dagenham.

Sports Day and Gala.—The staff of Maclean's, Ltd., manufacturing chemists, Great West Road, Brentford, Middlesex, held their first post-war sports and gala day at the company's sports ground recently. The function was organised by the staff sports club. Mrs. W. McGeorge (wife of a director) distributed the prizes.

Huddersfield Chemists' Golf.—At a meeting of the Huddersfield Chemists' Golfing Society held recently for the trophy presented by Ucal, Ltd., Messrs. L. Fawthrop and J. W. Hutton tied for the leading position with a score of 70. The tie was decided on the first nine holes in favour of Mr. Fawthrop.

Rodent Control Research.—With the object of searching for humane and efficient methods of controlling rodents a research studentship has been endowed at the University College of Wales, Aberystwyth. Research on humane poisons for rats, and on the control of rabbits, particularly surface-dwelling woodland rabbits, are included in the programme of work.

British Association Officers. — The British Association for the Advancement of Science anounces that on January 1, 1947, Sir Henry Dale, O.M., F.R.S., will become *President* of the Association, and that from July 20, 1946, the Association's general officers are: *Treasurer,* Mr. M. G. Bennett, *General Secretaries,* Dr. E. Hindle, F.R.S., and Sir John Lennard-Jones, F.R.S.; *Secretary,* Mr. D. N. Lowe.

Privileged Purchases of Blades Ended.—Under a general licence made by the Board of Trade, sections of the Consolidated General Licence, which permitted traders to restrict the sale of razor blades and certain other goods, are revoked. The special distribution schemes for those goods are no longer in operation. Copies of the general licence (S.R. & O., 1946, No. 1146) are obtainable, price one penny, from H.M. Stationery Office, London, W.C.2.

World Scientific Federation.—A Wo Federation of Scientific Workers, under t presidency of Professor F. Joliot-Curie, h been set up following a conference call by the Association of Scientific Workers London recently. The Federation, whi will unite scientists and technicians into "political-action" body, includes amo its objects the fullest utilisation of science promoting peace and the international e change of workers.

Free Drugs to Private Patients?— recommendation that a patient obtaini medical services privately should not be r quired to pay for drugs and appliances w carried unanimously at the annual repr sentative meeting of the British Medic Association in London recently. The pr poser maintained that the present cost drugs and appliances was so great that private patients had to pay for them would mean the virtual disappearance private practice.

World Health Organisation.—A ne World Health Organisation came into bei when delegates of the fifty-one Unite Nations signed the constitution of t organisation in New York recentl "Observing" governments, allied contr authorities, and similar organisations a also represented. Members have bour themselves by rules in five fields whi include setting international standards f the marketing of safe, pure, and pote biological and pharmaceutical products, ar in advertising and labelling such drug Keeping world public opinion active informed is included among the organis tion's purposes.

Unesco's Programme. — The Prepar tory Commission of the United Natio Educational, Scientific and Cultural Ass ciation reached agreement after an eigh day session in Paris recently on a pr gramme of work to be submitted to t annual conference in November. The pla include co-operation with the existing inte national associations; the organisatio of conferences; the preparation studies and surveys, either directly by t secretariat or with the help of experts through special committees; a study public library services in relation to educa tion; an account of the present system publication of scientific journals, includin abstracting and reviewing services, with view to their rationalisation; preparatio of an educational year-book; promotion plans for the establishment of an informa tion centre and reference library.

Tetanus in Talcum Powder.—Six newly born infants have died in New Zealand from tetanus recently as a result of the contamination of talcum powder with tetanus spores. As a sequel, manufacturers of baby powders in that country have withdrawn from retailers and wholesalers, all their proprietary brand stocks; talcum used in future supplies of baby powder is to be sterilised. As the contamination is thought to have come from the jute bags in which the talcum was imported, steps are to be taken to ensure that all high-grade talcum intended for the preparation of baby powders is packed in clean containers not previously used for other purposes. Future consignments imported into New Zealand are to be tested bacteriologically and, if they are found to be infected, measures will be taken to have them sterilised.

Pageant of 150 Years.—In Sheffield recently, Newton, Chambers & Co., Ltd., celebrated with a historical pageant entitled "The Yield of the Years", the 150th anniversary of their foundation, a celebration delayed for two years on account of the war. The chemicals branch was touched on by the author of the pageant, who concentrated on the company's record as pioneers in coal distillation. The present chemicals branch was originally a small department of the collieries, and dates back to about 1870. In the course of the activities of the department the antiseptic oil was discovered which, in its emulsified form, is widely known as Izal germicide. In a performance restricted to two-and-a-half hours, covering a period of 150 years and an industry embracing over twenty separate enterprises, the chemical story was necessarily limited to one or two scenes, but these were ingeniously conceived and delightfully presented by the company's employees.

Economic Research Recommendations.—In a report issued recently as a White Paper, a Committee on the Provision for Social and Economic Research set up by the (pre-1945) Coalition Government makes the recommendations that a standing Interdepartmental Economic and Social Research Committee should be set up to survey and advise upon research work in government departments; that favourable consideration should be given to increases in university grants "with a view to strengthening developments conducive to the spread of research into economic and social questions"; and that the University Grants Committee should be asked to consider the establishment of a subcommittee to advise on matters relating to the Social Sciences.

IRISH NEWS

Golf Returns.—The Irish Chemists' Golfing Society held an afternoon outing at Newlands golf club on July 17 when play was for prizes presented by May, Roberts (Ireland), Ltd., and Johnson Bros. The first game was an 18-holes strokes competition, and the results were: 1, J. Murray (15), 71; 2, A. Walsh (15), 73; 3, E. MacManus (10), 73. In the bogey competition which followed, the results were: 1, E. MacManus (10), 1 down; F. J. Roche (7), 2 down; 3, M. J. Flynn (13), 2 down. The captain (Mr. A. W. Hughes) presided at the supper held later in the evening, following the competitions.

Eire Examination Results.—Of the sixty-two candidates who presented themselves at the July Licence examination of the Pharmaceutical Society of Ireland, twenty passed. They were Michael Joseph Henighan and Fanny O'Donnell, Kevin Banks, Elizabeth Browne, Eleanor Catherine Burke, Catherine Mary Dunne, Patrick Fahey, Emily Catherine Farry, Kathleen Josephine Kearns, Margaret Mary Gerard Kyne, John Francis McAuliffe, Terence Joseph McDonald, Una MacMahon, James O'Connor, Anna Agnes O'Donoghue, Pauline Bernadette O'Hora, Veronica Theresa O'Shea, John Daly O'Sullivan, Elizabeth Carmel Ryan, Augustine Stockwell.

P.D.A. Branch Activities.—At a meeting of the committee of the Eire Branch of the Photographic Dealers' Association held in Dublin recently, Messrs. P. Slattery, W. Pollock, and B. S. Mason, Dublin photographic dealers, were co-opted. The officers of the committee are: Messrs. G. A. McLean Lee (*Chairman*); P. A. Brady (*Treasurer*); Lyall G. Smith (*Secretary*); 199 Crumlin Road, Dublin; J. J. Roche, T. R. Bourke, A. J. Donnell, and P. F. McGrath. The committee had before it a number of applications for membership, some from persons not in the recognised photographic trade, and is considering them in relation to the interests of present members and dealers. The committee felt that in future applications should not be considered except from those who were prepared to carry reasonable stocks of cameras and other apparatus, to avoid granting applications from persons merely intent on being film sellers. Applications for membership should be made in the first instance to Mr. Lyall G. Smith at 199 Crumlin Road, Dublin.

LEGAL REPORTS

£20 Fine for Opium Offence.—At the Liverpool stipendiary magistrate's court on July 22, George J. Hart, seaman, was fined £20 for having imported 14 oz. prepared opium with intent to evade the prohibition imposed by the Dangerous Drugs Act.

Fine Follows Combs Sale.—In Leeds, on July 25, Morris Shapero, optician and jeweller, North Street, was fined a total of £50, with £10 10s. costs, for selling combs at an excessive price. It was alleged that Shapero had sold 92 gross of combs at £3 a gross when the controlled price was £2 9s. 4d.

Committed for Trial.—At Liverpool magistrate's court, on July 4, a girl of twenty, employed as a packer by Ayrton, Saunders & Co., Ltd., manufacturing chemists, Hanover Street, Liverpool, was accused of having stolen goods value £670 from her employers. Her father was charged with receiving the property, which included cosmetics and toilet requisites. Both the accused were committed for trial at the Liverpool Quarter Sessions.

Condition Imposed on Sale.—At Gloucester, on July 19, Ward & Wardman, chemists, Eastgate Street, pleaded guilty to unlawfully imposing a condition of sale; they were fined £5 with £5 5s. costs. For the Board of Trade it was stated that a woman customer asked for some talcum powder and was told she could have the powder if she bought a writing pad, some lavender water and a bracelet. The cost of the parcel of goods offered was 25s. 6d., the value of the talcum powder alone being 3s. 6d. The defence was that the parcels offered to the customer were made up as Christmas gifts.

Action Withdrawn after Settlement.—The record in a libel action brought by Boots Pure Drug Co., Ltd., Station Street, Nottingham, against the printers and publishers of the "Journal of the National Association of Clerks to Insurance Committees" was withdrawn after a statement had been made in the King's Bench Division, London, on July 29. Sir Valentine Holmes, K.C., for Messrs. Boots, said the case had been settled on terms involving a statement in court. In the "Journal" for July 1945, a statement had appeared that did not refer to the company by name, but referred to "multiple chemists who would not supply products of two well-known ex-German firms now registered as British companies." The article went on to suggest that the plaintiffs had substituted one of their own preparations when asked to supply drugs of the ex-German firms, and even of British firms. There was no truth in that; the company's employees offered drugs of any British make in substitution, and gave no preference to their own. When complaint was made to the defendants, they said the paragraph had been culled from a document. It was now clear that that was unreliable. Messrs. Boots were not vindictive, and the case had been disposed of on terms that included a publication of the case in the "Journal" and indemnifying the company for their costs. Defendants through their counsel, said they would make any reasonable amend to the plaintiffs, and wished to apologise. The record of the case was allowed to be withdrawn.

Innocent Infringements of Patent.—An application on behalf of Gillette Industries Ltd., Isleworth, Middlesex, arising out of a renewal of the company's patent in razor blades, came before the Chancery Division London, on July 26. The patent, which expired in November 1945, was not renewed until June 1946, and the company's counsel now asked the court to add to the renewal order a provision for dealing with persons who, in the interim, had innocently infringed the patent. Counsel suggested that persons who claimed to be licensees should be protected if they registered their claim within four weeks from the date of the order. Mr. Justice Vaisey, giving judgment, said the question was what protection should be given to innocent interim infringers while, at the same time, the patentees were embarrassed by not knowing who the owners of supposed licences might be. The patent in question was one of importance and the order which he now made and which in his own view should be a standard form applying to cases of the kind, provided that any person, not a licensee at the date of the expiry of the patent, who had since made or sold the razors in question, should be deemed to have acted with the licence of the patentee and should be entitled to continue to make and sell the razor, if within eight weeks from the date of the order he applied for entry of his claim in the register of patents. He added that the order must be advertised in the trade Press, and the period of the renewal of the patent would be extended from one year and nine months to one year and ten months.

TOPICAL REFLECTIONS

Conference Programmes

The comprehensive and judicious remarks on the recent British Pharmaceutical Conference in your editorial article on p. 109 may be said to render any observations of mine on the subject superfluous. Yet in taking leave of a successful event I should like to add a note on the construction of future conference programmes. You question the possibility of returning next year, "or at all," to conferences on a pre-war scale. In last Saturday's Press Lord Woolton was reported as saying that for the next twenty years we should have to work for our living as we have not worked for a very long time. It may be argued that those who work hard have a right to play hard. But attendance at many annual meetings of the conference leads me to record a plea for programmes of a less crowded and strenuous nature. Shortly after the first world war a member of the Conference Executive told me that in his opinion the conference was, as he put it, "being swanked out of existence." The conference has, of course, continued to exist, and apparently in undiminished popularity. But the idea underlying the criticism I have cited is sound. A multiplicity of social events crammed into four or five days is hardly consistent with the main purpose of the conference. It has even been hinted that some frequenters of these gatherings have sighed for a rest cure at the close of a "hectic" week—giving point to the saying that life would be tolerable but for its pleasures. A reduction in the number of items in the programme can be made without materially changing its structure: its general arrangement is excellent. I heartily support your protest against this year's ban on after-dinner speeches at the principal evening function. These have, as a rule, been an enjoyable feature.

The Medical Pendulum

The quotation given in the letter from Mr. J. W. Privett (p. 122) strikes me as an expression of a mood rather than of considered judgment. One can allow for the impatience of a medical practitioner in a remote part of Alaska with what he may regard as the finicking methods of specialists. But history reveals a continual movement of the pendulum of medical thought from the bedside to the laboratory and back. When any method of treatment hardens into a dogma, it is not long before someone queries its value and starts a discussion on it. Your correspondent and others interested will find evidence on this matter in various books of reference. As an instance, the semi-humorous forecast of Dr. de Vigne referred to may be compared with the closing pages of Dr. Arturo Castiglioni's History of Medicine (English version (reprinted), New York, 1946). Dr. Castiglioni, in a passage too long for quotation in full, holds that medicine is entering or has entered into a "Neo-Hippocratic" period, in which "the need is recognised for the study not only of the environmental factors of disease but also of the personal 'constitution,' a complex that changes with every individual and race. The philosophy of modern medicine thus orients itself more and more toward a consideration of the human organism as an indivisible part of the macrocosm . . . the unity of the individual organism or species is stressed, and it is recognised that the individual should be studied, protected, and treated in accordance with the laws of nature."

"The Tincture House"

The mention by Miss Evelyn M. Qualtrough of a "tincture house" in the garden of pharmacy where she was apprenticed (p. 104) conjures up a composite picture of many chemists' businesses carried on in properties spacious enough to allow separate buildings for operations not convenient in a shop or dispensary. London pharmacists have on occasion noted with envy the ample "living space" of some provincial colleague on whom they were calling while on holiday. In a "tincture house" (or more than one) such processes as distilling and the making of galenicals involving waste fumes can be undertaken without the distraction of front-counter work. This kind of operation will, especially under the present shortage of man-power, involve careful planning. Work of this nature can seldom be entrusted to a newly indentured apprentice. Either a proprietor or a senior assistant must be in charge in ordinary circumstances; for every chemist's shop does not contain a Dr. F. W. Aston able to devise machinery that will run without supervision for hours at a time. The experience gained by students in such cases is of great value, both for the purposes of examinations and as a guide to practice after qualification. Manifestly, every pharmacy in a large city cannot have its "tincture house"; but those that can have them will find profitable uses for them.

Xrayser

COMPANY NEWS

CRISP'S CHEMISTS, LTD. (P.C.).—Capital £1,500. Chemists, opticians, etc. William Blott, M.P.S., and Martha B. Crisp, directors. R.O.: 3 Saturday Market Place, Kings Lynn.

NEO-CHEMICALS, LTD. (P.C.).—Capital £100. Manufacturers of and dealers in chemicals, etc. Edward V. Cherubini, director. R.O.: 36 Oxford Street, London, W.1.

SPASMOLYTH PHARMACALS, LTD. (P.C.).—Capital £100. Chemists, druggists, etc. Directors to be appointed. Solicitors: Ernest G. Scott & Co., 31-2 Broad Street Avenue, London, E.C.2.

ALDINGTON & LEWIS, LTD. (P.C.).—Capital £1,500. Chemists, etc. Allen Aldington, John G. D. Lewis, and Leonard C. Laxton, directors. R.O.: 168 High Road, East Finchley, London, N.2.

ABBOTT & HAYNES, LTD. (P.C.).—Capital £1,000. Chemists, druggists, etc. Cyril S. Abbott and Percival A. Haynes, directors. R.O.: 736 Hertford Road, Enfield, Middlesex.

HILARY BROOK, LTD. (P.C.).—Capital £1,000. Chemists, opticians, etc. James H. Wootton-Davies, George F. Appleton, Albert H. Dodd and Olive Crabb, directors. R.O.: Lunt Avenue, Netherton, Liverpool, 10.

A. E. SEARGEANT & CO., LTD. (P.C.).—Capital £500. Manufacturers of and dealers in chemicals, etc. Albert E. H. I., and Doris M. I. Seargeant, directors. R.O.: 8 Oxford Gardens, Winchmore Hill, London, N.21.

WESTCOTT & CO., LTD. (P.C.).—Capital £100. To acquire the business of chemists carried on by Westcott & Co., at 329 High Holborn, London, W.C.1. Directors: Frank C. Chown and Paul D. Chown. R.O.: As above.

PHOMAZENE PRODUCTS & TRADING CO., LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in cleansers or soaps, etc. Madeleine M. Emmilienne, Pierrette Cerveau and Jos. C. G. Chapman, directors. R.O.: 63-65 Piccadilly, London, W.1.

CREGAGH PHARMACY, LTD. (P.C.).—Registered in Belfast. Capital £1,000. Chemists, druggists and opticians, etc. Helen M. Stevenson, Elizabeth M. Heazley and George O. Robinson, directors. R.O.: 343 Woodstock Road, Belfast.

SUNEAR HERB CO., LTD. (P.C.).—Capital £500. To acquire the business of a herb vendor carried on by C. M. Martin as "Sunear (Direct Supply) Herb Co." Cecily M. Martin, director. R.O.: 274 West Green Road, London, N.15.

BEVERLEY TRADING CO., LTD. (P.C.).—Capital £100. Manufacturers of and dealers in and agents for toilet, nursing and medical preparations and requisites, etc. Suzanne D., and Michael Forter, directors. R.O.: 20 Essex Street, London, W.C.2.

CLIFFORD FULLAM, LTD. (P.C.).—Capital £1,500. To acquire the business of a pharmaceutical chemist carried on by Clifford T. Fullam at Manor House, Snaith, Yorks. Clifford T., and Annie E. Fullam, directors. R.O.: As above.

AMBROL PRODUCTS, LTD. (P.C.).—Capital £100. Chemical manufacturers, including firelighter and patent fuel manufacturers, disinfectant manufacturers, etc. John Fletcher and John C. Kenney, directors. R.O.: 30 Willow Street, Accrington.

A. DAWSON & CO. (HOUGHTONS-LE-SPRING), LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in dental, pharmaceutical and general products, etc. George Frost and Harry Craven, directors. R. O.: The Quay, Church Street, Houghton-le-Spring.

D.K. (CHEMICALS), LTD. (P.C.).—Capital £4,000. Dealers in the primary products of Diketene; to adopt an agreement with Genatosan, Ltd., and John W. Leitch & Co., Ltd., and to carry on business of manufacturers of and dealers in dyes, chemicals, etc. Albert G. Barthel, Arthur E. Everest, George M. Dyson and Myer Briscoe, directors. R.O.: 43 Regent Street, Loughborough.

DR. GOODFELLOW'S IODINE PRODUCTS, LTD. (P.C.).—Capital £2,000. To acquire the business of manufacturers, fillers and sellers of iodine and other diffusers of various types, carried on by Mrs. Doris C. Randall at 175 Walton Road, Chesterfield, as "Dr. Goodfellow's Xodo Iodine Products"; and to carry on the business of manufacturers of, agents for and dealers in preparations of all kinds involving the use of iodine. Theophilus Pearson and Frederick S. Short, directors. R.O.: The Potteries, Whittington Moor, Chesterfield.

CONSOLIDATED GLASS, LTD.—Sir Robert E. Marriott, B.Sc., M.Inst.C.E., has joined the Board.

BIRTH

LLOYD.—Recently, wife of Ivor Lloyd, M.P.S., St. Peter Port, Guernsey, Channel Isles, of a daughter (Jillian).

MARRIAGES

MCCAFFREY—GILHOOLY. — In Sligo, recently, Eugene F. McCaffrey, M.P.S.I., Ordnaree, Ballina, co. Mayo, Eire, to Maura Gilhooly.

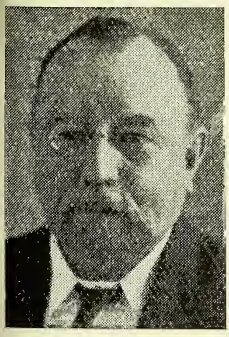
ALFORD - TORKINGTON. — At Denton, Lancs, recently, Robert Birtwistle Alford, M.P.S., 4 Woodbridge Avenue, Audenshaw, to Annie Torkington.

DEATHS

DEWING.—Recently, Mr. Charles Dewing, Grimsby. Mr. Dewing qualified as a chemist and druggist in 1888. He was in business in Grimsby for many years, retiring in 1944.

FROMOW.—On July 19, Mr. David Howell Fromow, M.P.S., 15 Lucius Street, Torquay, aged sixty-two.

LAWS.—On July 25, Mr. John Joseph Laws, M.P.S., Holly Lodge, Werter Road, Putney, aged seventy-seven. Mr. Laws, who qualified as a chemist and druggist in 1893, served his apprenticeship at Portsmouth, and has been the proprietor of several businesses. He was treasurer of the Chemists' Dental Society and served for many years as secretary of the Institute of Chemists-Opticians, retiring in 1944.



KITSON.—In a Bournemouth nursing home, on July 27, Mr. George Thomson Kitson (E. J. Kitson, Ltd., chemists, Worcester). Mr. Kitson had been at Bournemouth a little over two months, following his retirement from business in May. He is survived by his widow. Mr. Kitson had himself been associated with the business for fifty-four years. He had lived in Worcester all his life, and was a member of Worcester Bowling Club, the City Club (which he joined in 1900), Worcester Golf Club and the Farmers' Club. An ardent Freemason, he was a member of the Page Lodge.

MATZ.—Recently, Mr. Sidney Matz, Brooklyn, N.Y., U.S.A. Mr. Matz was a director of Ex-Lax, Inc., New York, and Ex-Lax, Ltd., Slough, Bucks.

PAGE.—On July 17, Mr. Harry Page, M.P.S., 41 Cassiobury Park Avenue, Watford, aged seventy-four.

PFENNINGER.—On July 22, Mr. James Otto Pfenninger, M.P.S., 177 Streatham Road, Mitcham. Mr. Pfenninger qualified in 1908 and was an active member of the South-west London Chemists' Association.

PERSONALITIES

COUNCILLOR GORDON LOCK, M.P.S., Chantry Lane, Grimsby, has been elected to the board of management of the National Chamber of Trade.

DR. O. J. R. HOWARTH is retiring from the secretaryship of the British Association for the Advancement of Science, a position he has held since 1909.

MR. J. R. GUILER, M.P.S.N.I., Belfast (Northern Ireland representative of The British Drug Houses, Ltd.), has been elected president of the Ulster Branch, Irish Hockey Union.

LIEUTENANT J. V. MCDOWELL, R.E., son of Mr. James McDowell (president, Pharmaceutical Society of Northern Ireland) has been promoted Captain. He joined the Army as a private. He is at present stationed in Calcutta.

WILLS

MR. AUBERON HERBERT, M.P.S., Newbury, Gillingham, Dorset, left £6,768, with net personalty £5,404.

MR. MAX HUGO LORENZ, Fairfield, Brockley Park, Forest Hill, S.E.23, formerly a director of Hugo Lorenz, Ltd., chemical and drug merchants, left £26,924, with net personalty £12,282.

MR. JAMES FOWLER TOCHER, D.Sc., LL.D., F.R.I.C., 17 Carden Place, Aberdeen, for many years analyst and official agricultural analyst for Aberdeen and other northern Scottish counties, consulting chemist to the Highland and Agricultural Society of Scotland since 1912, left £9,265.

MR. CHARLES EDWARD SPROTT, M.P.S., The Little Homestead, Shermanbury, Horsham, Sussex, formerly managing director of the Thermogene Co., Ltd., Haywards Heath, left £92,831, with net personalty £92,035. He bequeathed £100 to the Benevolent Fund of the Pharmaceutical Society.

TRADE NOTES

Five-day Week.—Ex-Lax, Ltd., now re-installed in their former offices and factory at Slough, Bucks, have instituted there a five-day week.

DDT Fly-papers.—Chemists are invited to write for a sample gross of DDT fly papers (non-adhesive), on cash-with-order terms, to B.B. Insectides, 2 Belgrave Parade, Stoke Poges Lane, Slough, Bucks.

Reduced Purchase Tax.—A revised ruling announced by the Customs and Excise authorities, and immediately effective, reduces the purchase tax on the perfumed baby powder issued by Johnson & Johnson (Great Britain), Ltd., Slough, Bucks.

Change of Points Value.—Since July 21, the number of points required for each 14 oz. packet of Allenbury's cereal has been increased to eight. The makers are Allen & Hanburys, Ltd., Bethnal Green, London, E.2.

In Better Supply.—T. J. Smith & Nephew, Ltd., Hull, announce that, for the holiday trade, increased supplies have been made available of Lil-lets improved sanitary tampon. Orders should be placed with usual wholesalers.

Lipsticks in Metal Cases.—The return of Coty lipsticks cased in metal containers is being brought to the notice of the public by Coty (England), Ltd., 3 Stratford Place, London, W.1, by means of a Press advertising campaign.

Cosmetic Sundries Distribution. — Beautisales, Ltd., 35 Old Bond Street, London, W.1, state that they are in a position to consider one or two extra lines in perfumery, toilet and cosmetic sundries for distribution to the trade.

English Lavender.—We have received a sample of this season's crop of English lavender from Perks & Llewellyn, chemists and distillers, High Street, Hitchin. The sample has large heads of excellent colour, and should yield an oil of the usual fine quality.

Advertising Campaign.—It is announced by Leciferrin, Ltd., 4 John Adam Street, London, W.C.2, that an advertising campaign for Leciferrin is in progress in local papers in Scotland, Northumberland and Durham. Show material may be obtained from the manufacturers.

Index of Modern Remedies.—A second edition has been printed of the third "Index of Modern Remedies," published by the "Scottish Chemist," 240 Albert Street, Pol lokshields, Glasgow, S.1, and the opportun ity has been taken to bring the publicatio up to date by including references to recen changes and new introductions.

America Visit.—Mr. Maurice E. Rot (managing director of Alfred Franks & Bart lett Co., Ltd., and associated companies) i making a short business trip to America Until August 18 he can be contacted at th offices of the company's American associate The Eagle Druggists' Supply Co., Inc 43-47 West 23rd Street, New York.

Representatives' Calls.—Optrex, Ltd Perivale, Middlesex, state that all the com pany's representatives have now returne from the Forces, and more regular and fre quent calls on chemists are being arrange The districts to be covered during the re mainder of the present summer season ar listed in an announcement in this issue.

Picrate Ointment.—Abbott Laboratorie (England), Ltd., Wadsworth Road, Peri vale, Middlesex, announce the introductio of Butesin picrate ointment for use as a analgesic in the local treatment of mino burns, non-specific ulcers, and skin lesion in minor lacerations and abrasions. Th preparation is available in 1-oz. and 2-oz tubes and in 1-lb. and 5-lb. jars.

Hot-water Bottles Again.—The atten tion of chemists who wish to complete thei plans for the coming winter season is draw by Dunlop Rubber Co., Ltd., genera rubber goods division, Cambridge Street Manchester, to the fact that the compan has resumed manufacture of hot-wate bottles, which was discontinued during th war in order to concentrate production o Services equipment.

Bread Units not Required.—A. & R Scott, Ltd., Edinburgh, state that their pre paration, M.O.F. (Midlothian oat food) i excluded under the heading "Infan Foods" from the bread and cereal ration ing scheme. It should be noted that th exemption applies to the proprietary foo only, and not to material sold under suc a designation as "Midlothian oat food" fo making porridge, etc.

Again Available.—Miles Laboratories Ltd., announce that Alka-Seltzer, which had a wide sale, backed by extensive ad vertising, before the war, is again availabl in Great Britain through the sole distri butors, Don S. Momand, Ltd., 57 Albany

Street, London, N.W.1. UNITED CHEMISTS' ASSOCIATION, LTD., Ucal Works, Cheltenham, announce that Ucal pain powders are now again available in limited quantities.

Lipsticks as Pre-war.—Pond's Extract Co., Ltd., Perivale, Middlesex, announce that their lipstick is again in its pre-war pale-green metal case with close-fitting cap. It can thus safely be carried in pocket or handbag without fear of damage to the lipstick. The price of the small size has been altered, and the large lipstick has been reintroduced. Both lipsticks are in light, medium, vivid and ruby shades; supplies are limited.

Courses in Pharmacy.—Details of fees for courses at Bradford Technical College for the Chemist and Druggist Qualifying, Pharmaceutical Chemist Qualifying, Bachelor of Pharmacy (London), and Preliminary Scientific examinations are given in an announcement by the Bradford Education Committee elsewhere in this issue. Intending students are invited to apply to the principal of the college for detailed particulars.

Fibre-board Cases Defined.—A distinction between cartons and fibre-board packing cases is emphasised by Thames Board Mills, Ltd., Purfleet, Essex, who give the following definitions for these two items: A fibre-board packing case is an outer case for weights up to 1 cwt. or more for goods already packed in cartons (or in some instances without immedate packing); a carton is a small inner folding pack for weights of 1 oz. or less, up to 1 lb. or two. Fibre-board packing cases for railway risk traffic must conform to definite standards of quality and strength.

Penicillin Dental Cones.—A new penicillin speciality—penicillin dental cones, M. & B.—has been introduced by May & Baker, Ltd., Dagenham, for distribution by Pharmaceutical Specialities (May & Baker), Ltd. The cones are intended for direct insertion into tooth sockets after extraction, or insertion after crushing and impregnating a collodion-steeped gauze tampon. Each cone contains 1,000 units of penicillin calcium salt, together with sulphathiazole, gr. ¼, and sulphanilamide, gr. ½. Under ordinary conditions of storage the potency is retained for approximately four months. The cones are issued in containers of 100.

Post-War Development.—Mr. Leon A. Chiris, the recently elected president of Antoine Chiris Co., Inc., 115 East 23rd Street, New York, is to spend half of his Street, London, N.W.1.–UNITED CHEMISTS' in this country. New laboratories and warehouses for the company at Tadworth are expected to be completed and ready for operation from September 15. Mr. Dennis Davies, the sales manager (see *C. & D.*, July 20, p. 72) served during the war first with the Royal Navy as Commander and later with the Foreign Office. Mr. Leonard Smith has been appointed chief chemist of the company.

Treatment of High Blood-pressure. — A new speciality has been introduced by Clay & Abraham, Ltd., Liverpool, for use in the treatment of high blood-pressure with associated arhythmic heart. The product, Sedovas capsules, contains, in each capsule, glyceryl trinitrate, gr. 1/200; phenobarbitone, gr. ½; and nicotinic acid, 50 mgm. The preparation is a schedule-4 poison. The company has just issued an abridged price list, copies of which will be sent to any pharmacist enclosing a penny stamp to conform with Government requirements.

Proprietary Articles Trade Association

Additions to the Protected List.—*Munro Vitarex, Ltd.*, Charmony soapless shampoo, 3s. doz., tax 1s. doz., inclusive retail price 6d.; Charmony lipstick, 28s. doz., tax 28s. doz., i.r.p., 6s.

Vital force products, MacLennan brand vital force tablets, 28s. doz., tax 4s. 8d. doz., i.r.p., 3s. 9d.

Alterations.— *George Christie & Co.*, Correction: Di-Meepol, 13s. doz., tax 4s. 6d. doz., i.r.p., 2s.

Eli Lilly & Co., Ltd.. On and after August 1, the percentage margin of profit to retail chemists will be increased from 30 per cent. to 33⅓ per cent. off basic retail prices published in the current issue of the P.A.T.A. year book. Full particulars may be obtained on application to the Secretary, P.A.T.A., 43 Gordon Square, London, W.C.1.

BUSINESS CHANGES

MR. G. H. DARLING, Ph.C., has been appointed superintendent pharmacist of the Royal Hospital, Bristol, from October 1.

MR. H. D. R. MATTHEWS, M.P.S., has been appointed chief buyer to Potter & Clarke, Ltd., Artillery Lane, London, E.1, after being a member of the company's technical and production staff since 1933.

CALMIC, LTD., Westhoughton, Lancs, are removing to Crewe Hall, Crewe, Cheshire. The present works and administrative staffs, for whom flats, etc., are to be provided, have been invited to go, and the transfer is expected to begin in 1947.

PENICILLIN DISPENSING FEES

A CIRCULAR issued by the National Pharmaceutical Union states that, in consequence of the issue of B.P. formulas for a range of penicillin preparations, and the introduction to the market of relatively stable commercial packs of certain of the preparations, the scale of National Health Insurance dispensing fees, and the basis of payment for ingredients, have been reviewed at the request of the Ministry of Health. The new agreed basis is set out below. Some of the details show no variation from those previously notified. They are included for completeness. All fees and total payments include the war-time increase of 33⅓ per cent.

1. PENICILLIN.—Vial pack, supplied as such and penicillin preparations bought ready prepared to standard formulas, *e.g.*, B.P. lozenges, ointment, eye ointment:—
   Up to and including 2s. 6d., fee 8d.
   Over 2s. 6d., and up to 5s., fee 1s.
   Over 5s. and up to 10s., fee 1s. 4d.
   For every 5s. or part of 5s. in excess of 10s., 8d.

2. PENICILLIN CREAM, B.P.
   (a) Dispensing Fee.—From August 1 the dispensing fee will be 2s. The fee will also apply to creams dispensed extemporaneously in a base which is a variant of the B.P. base (where such variation is ordered or permitted by the prescriber) and to creams which differ from the B.P. cream only in the penicillin strength ordered.
   (b) Ingredient Cost. — Payment will be made for the actual quantity of penicillin ordered, at the rate of 0.22d. per 1,000 units, and for the actual quantity of B.P. base (or variant of it) at the rate of 1.0d. per oz. Payment for the unused balance of penicillin from a vial will be made only if the prescription is endorsed with a statement that the vial contents could not be used up within twenty-four hours, and with the number of units for which payment is claimed. The container to be used is a screw-capped jar with cardboard disc; the allowances will be as follows:—1-oz. size, 3.5d.; 2-oz., 4.2d.; 3-oz. and 4-oz., 4.5d.
   Full N.H.I. payment (where payment for an unused balance of penicillin is not appropriate) will be thus approximately as follows:— 1-oz. (or 25 gm.), 2s. 7½d.; 2-oz., 3s.; 3-oz., 3s. 6d.

3. STERILE PENICILLIN CREAM, B.P.
   Must be made with full aseptic technique; current dispensing fee (3s. 4d.) continues. Screw-capped jar is to be supplied without extra charge. Payment for penicillin is on the same basis as in penicillin cream, B.P., including claims for unused balances. Other ingredients will be priced on basis of a jar of sterile base being obtained prepacked at a cost not exceeding the cost price in the agreed list, plus the cost of the amount of sterilised water, B.P., used. The quantity of sterilised water, B.P., used should be endorsed on the prescription with particulars of cost, so as to avoid risk of under-payment. The same fee and basis of payment of ingredient cost will apply to sterile creams of B.P. strength made in other aqueous bases, or to sterile creams of non-B.P. strength made in the B.P. base or other aqueous base.

4. PENICILLIN OINTMENT, B.P.
   (a) Until October 1, if prescription is endorsed to show it has been dispensed extemporaneously, dispensing fee will be 3s. 4d. (screw-capped container to be supplied by the pharmacist without charge). Payment will be made for actual quantity of penicillin and ung. alcohol. lanæ required for the amount of ointment ordered. Where prescription is not endorsed to show it has been dispensed extemporaneously, basis set out in (b) is operative from August 1.
   (b) From October 1 onwards, whether ointment is bought prepacked or dispensed from bulk ready-prepared or dispensed extemporaneously, payment will be on basis of cost of a prepacked article, taken from the agreed price list, or cost of a specified make of ointment where the prescriber specifies a particular make and price differs from that in agreed list, plus appropriate dispensing fee for a prepacked preparation.

5. PENICILLIN OINTMENT NOT OF B.P. STRENGTH AND NOT COMMERCIALLY AVAILABLE AS PREPACKED PREPARATIONS.— Until October 1, the dispensing fee will be 3s. 4d. including cost of screw-capped jar); payment for penicillin and base will be for quantities actually ordered. Prescription should be endorsed to show extemporaneous dispensing. From October

1, dispensing fee will be 2s., but containers will be paid for on same basis as containers for penicillin cream. Payment for penicillin and the base will be for quantities actually ordered.

6. Oculentum Penicillin, B.P. (Must be made by aseptic technique and using sterile materials.)
Until October 1, if extemporaneously dispensed and prescription endorsed accordingly, fee will be 3s. 4d. (including provision of tube as container). Payment for penicillin and base will be for quantities actually ordered. Basis of payment will continue after October 1, for penicillin eye ointments not of B.P. strength, made in non-aqueous base, if not available as standard prepacked article. Prescription should be endorsed to show extemporaneous dispensing.
From October 1, whether B.P. preparation is dispensed extemporaneously or a prepacked preparation supplied, basis of payment will be cost price from the agreed list (or actual cost if a specified make with different cost is specified by prescriber), plus the appropriate fee provided for in paragraph 1.

7. Injections. — A licence under the Therapeutic Substances Regulations is needed before injections of penicillin may be dispensed. The licence is not required for any other class of penicillin preparation.
(a) Aqueous injections (extemporaneous dispensing with full aseptic technique necessary). For injections made in an aqueous base the dispensing fee remains at 4s.; payment for the penicillin and vehicle (which should be specified if not apparent from an inspection of the prescription) will be on basis of quantities ordered (subject to claims for unusable balances of penicillin claimed for as in paragraph 2). Extemporaneous dispensing should be indicated by endorsement. Containers are paid for separately; the prescription should be endorsed to show cost.
(b) Penicillin Oily Injection, B.P.— Will normally be bought ready prepared; payment will be as in paragraph 1 above.
Until October 1, where injection is made extemporaneously, prescription should be endorsed accordingly; it carries a fee of 4s. plus payment for actual quantities of penicillin and base specified. Prescription should be endorsed with claim for cost of container in which injection is supplied.
From October 1, whether preparation is dispensed extemporaneously or supplied prepacked, payment will be in accordance with paragraph 1 (see opposite page).

8. Eye drops, throat sprays, nasal sprays, ear drops, and similar preparations, not for parenteral injection.— These preparations are required to be made by aseptic technique, and must be freshly prepared, since normally they will not contain a bacteriostatic and many will be aqueous. Dispensing fee (3s. 4d.) unchanged. Appropriate container must be supplied without extra charge. Payment for penicillin will be for the actual quantity ordered, at the rate of 0.22d. per 1,000 units, unless there is an unused balance not used within twenty-four hours, and prescription is endorsed as directed in paragraph 2. Payment for vehicle will be for quantity ordered. Extemporaneous dispensing should be endorsed on the prescription. If prescriber does not specify strength to be supplied or vehicle to be used, prescription should be endorsed to show what has been supplied.

Penicillin for Veterinary Purposes

Pharmacists are included in arrangements that have been made for the supply of penicillin to veterinary surgeons. The following notice, which makes the procedure plain, has been issued by the National Pharmaceutical Union in agreement with the Ministry of Supply:—

In completing form PPC/5 (application for authority to obtain penicillin for treatment of bovine mastitis and other diseases of dairy cattle) veterinary surgeons may specify the name of any "authorised seller of poisons" or other recognised supplier of veterinary medicines as the person to be licensed to make supplies to them. The application form PPC/5 may be obtained by veterinary surgeons from the National Veterinary Medical Association, 36 Gordon Square, London, W.C.1. The completed form must be returned to the National Veterinary Medical Association, who will check the status of the applicant, and then forward it to the Ministry of Supply. The notice does not represent any change in policy, but, the circular states, is "a clarification that seems desirable."

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

Health Bill Read a Third Time

THE National Health Service Bill passed through its Report stages in the House of Commons on July 22 and 23, and received a third reading on July 26 by 261 to 113. Many amendments were tabled by Conservatives during the Report stage on the management of hospitals, and other points such as empowering a county borough to devolve the task of administering health services on non-county boroughs in certain circumstances.

Mr. Linstead Leads for Opposition

MR. HUGH N. LINSTEAD was chosen by the Opposition to open the debate for them on July 26, after MR. CHARLES KEY (Parliamentary Secretary to the Ministry of Health) had moved the third reading. MR. KEY declared that all the powers of the Minister under the Bill were to be exercised after consultation with various bodies, so that the right kind of people would be appointed to the administrative councils and committees. Appointment would not rest on the *ipse dixit* of the Minister alone, but the Minister's powers were all powers of a kind that had been enjoyed by Ministers in relation to medical and other benefits under the National Insurance Scheme.

MR. LINSTEAD said the reforms in the Bill and in the National Insurance and Industrial Injuries Bills were as much good Conservative policy as the policy of any other party. "While on both sides we are agreed on the aims, there are fundamental differences, based on differences of policy, on the way in which these objects are to be achieved," he said. He saw many signs in the Bill that the lack of co-ordination in the health services was not going to be remedied, and said the remedy could be found in centralised planning, localised administration, by "not being afraid to trust locally elected people with spending public money," utilising to the maximum voluntary workers in administration, and allowing the professions to participate in the work with a minimum loss of freedom. "A bribe of £66 millions is being used to sweeten the Bill for the medical profession," he went on. The Bill placed in the hands of one department of State an enormous power of patronage. The Minister had the power of the purse and the power of veto over the whole of the health service of the country. He thought the task was being accomplished this way because it was an "easy, quick and tidy way" which appeared to the Minister to provide means of producing an efficient health service. But the risk in this concentration of power was that it might equally well provide a dull and inefficient service. There would be an administrative bottle-neck in Whitehall, and the medical profession would be put in chains. As a result of the provisions of the Bill there was going to be a second-rate service.

A reasoned rejection of the Bill was moved for the Opposition on the grounds that it discouraged voluntary effort and association, mutilated the structure of local government, dangerously increased Ministerial power and patronage, appropriated trust funds and benefactions in contempt of the wishes of donors and subscribers, and undermined the freedom and independence of the medical profession to the nation's detriment. Winding up for the Opposition, MR. H. U. WILLINK (a former Minister of Health) declared that, but for the difficulties the Minister had created, the scheme could have come into operation nine months or a year earlier.

Minister Replies

MR. ANEURIN BEVAN, replying for the Government, maintained that the scheme emancipated the voluntary medical workers from the indignity of having to collect money by private charity and declared that the Opposition was trying to incite the medical profession against the scheme. Doctors were not going to become State servants at all. They were under contract with a body on which there was one-half professional representation.

He ended with an appeal for co-operation from the medical profession and health workers, without which the Bill was bound to fail.

New "Fair Wages" Clauses

The Minister of Labour has tabled in the House of Commons the text of the amended Fair Wages Clauses to be inserted in Government contracts.

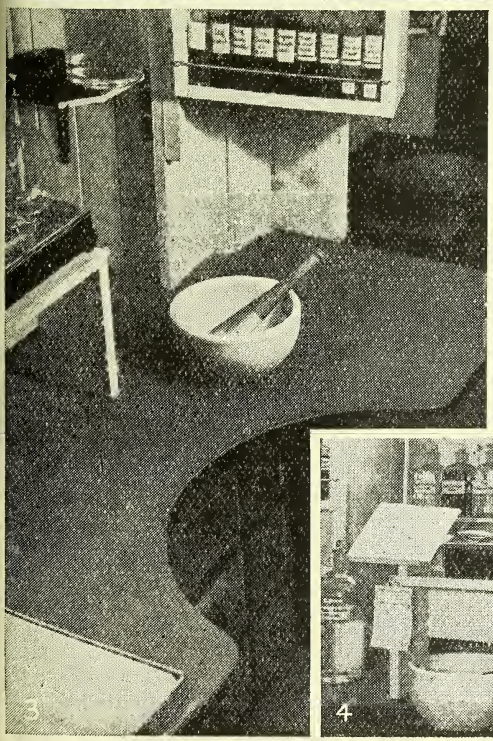
COMING EVENTS

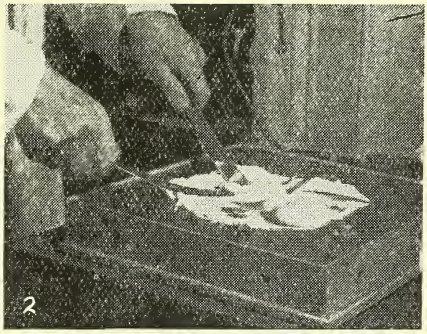
Sunday, August 11

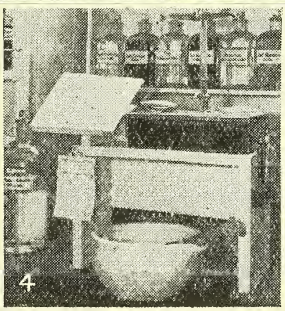
MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble to Chinley, Peak Forest, Hope. Meet at Central station, 8.45 a.m. Book Chinley return.

A SPACE-SAVING DISPENSARY

The rearranged unit of Dennison & Graham, Newcastle-on-Tyne







1. For compactness, the dispensing rounds are arranged not only on shelves facing the pharmacist, but also on front and back of two hinged fixtures at either side.

2. An electrically heated slab or hot-plate facilitates the preparation of many ointments, etc.

3. To enable the pharmacist to reach his drugs without moving from his place, a semi-circle of space is stolen from the bench.

4. The dispensing balance is raised upon a "stool," with miniature desk for formulary at left.

CHEMIST AND DRUGGIST QUALIFYING EXAMINATION RESULTS

THE following passed in England and Wales in July:—

Akroyd, Edith Annie, Leicester;
Baker, June Margaret, Cambridge;
Banks, Edward Huia, Bridlington;
Bashford, John, Mansfield;
Beaumont, Richard, E. P. H., Colchester;
Blick, Margaret Rose, Altrincham;
Broughton, Arthur Lloyd, Leyton;
Clark, Ruby Miriam, Luton;
Collinson, Ruth B., Ipswich;
Crabtree, Philip T., Monton;
Drinkwater, Kenneth E., Beeston;
Edwards, Rae Margaret, Rhondda;
Evans, David Trevor, Pontyberren;
Fensome, Jean Barbara, Luton;
Foord, John Joseph, South Shields;
Fortune, Ernest G. B., Swindon;
Fox, Jack Vivian, Sheffield;
French, Bridget C., Gt. Bookham;
Gibson, Thomas, Accrington;
Gray, Muriel, Ashton;
Griffin, Harold J., Northfield;
Griffiths, Henry J. G., Swansea;
Hall, Charles, Romiley;
Haytack, Ruth, Oldham;
Hopson, James, Oldham;
Howard, Horace John, Bargoed;
Howells, Cyril Powys, Barry;
Hughes, May, Cwmgorse;
Ironmonger, John D., Chiswick;
Jeary, Lilian I., Great Yarmouth;
Jones, David G., Treorchy;
Jones, Eileen M., Desborough;
Landy, Abraham, Llanelly;
Lanigan, Patrick A., Neath;
Larkworthy, Nora, Pontypridd;
Legg, Joan W., Bournemouth;
Letchford, William A., Catford;
Lloyd, Edith, Burton-on-Trent;
Mander, Geoffrey A., Moseley;
Mangham, Jack, Church;
Medley, James Sutherland, Highbridge.
Merritt, Shirley, Newport, Mon.;
Millar, Marjorie Lilian, Cardiff;
Mills, Dorothy Eva, Hinckley;
Mills, Geoffrey Frank, Hove;
Moody, Thomas, Coventry;
Moore, Harold John, Cottenham;
Norris, Eileen Marion, Wolverhampton;
Oliver, Hazel, Smethwick;
Osborne, Diana P. M., Bath;
Owen, Kathleen, Timperley;
Peirce, Kenneth Henry, Lewisham;
Platt, Geoffrey, Greenfield;
Preece, Ernest Ivor, Sketty;
Rees, Robert W. P., Cardiff;
Rockett, Mary Eileen, Bedford;
Sheppick, Ida Gertrude, Seaton;
Slater, Donald Reuben, Wolverhampton;
Smith, Fred, Blackburn;
Smith, Geoffrey Ivor, Swansea;
Smith, Horace Henry, Barry Dock;
Smith, Margaret Doreen, Bradford;
Summers, Pamela Joyce, Mumbles;
Taylor, Leonard, Smethwick;
Taylor, William David, Rugby;
Thomas, Juanita G. L., Loughborough;
Walker, Kenneth Lewis, Worthing;
Watling, Joan Mary, Lydiate Ash;
West, Leonard W., Brighton;
White, Margaret Ellen, Melbourne;
Wilkinson, John, Morecambe;
Williams, Aileen, Sutton;
Williams, David George, Abergavenny;
Woodford, James A., Clacton-on-Sea.

The following passed in Scotland:—

Baillie, Dorothy Grace, Musselburgh;
Baxter, George, Clydebank;
Birdsall, Jack, Leeds;
Borley, Elizabeth Patience, Edinburgh;
Breese, Gwynfor, Liverpool;
Brown, Mary, Halifax;
Burgin, Margaret, Barnsley;
Calderwood, Mina Jackson, Wishaw;
Croy, John Grenfell, Grangemouth;
Davidson, Mary, Edinburgh;
Davies, Rhiannon, Liverpool;
Dickie, William Joseph, Birkenhead;
Dickinson, William Robert, Chester;
Edwards, Margaret E. (Mrs.), Sunderland
Esslemont, Anna Elizabeth, Aberdeen;
Evans, Dorothy, Wallasey;
Ewen, Harold Duffus, Aberdeen;
Filippi, Adele Maria, Glasgow;
Forbes, Alexander, Aberdeen;
Forbes, Charles Stewart, Aberdeen;
Giblin, Thomas Hugh, Liverpool;
George, William Eric, Stonehaven;
Harrison, Margaret Joan, Edinburgh;
Henley, George William, Halifax;
Jervis, Kenneth, Brighouse;
Jones, Merfyn, Wrexham;
Lincoln, Maurice A., Newcastle-on-Tyne;
Lloyd, Eleanor Muriel, Wigan;
McGregor, John, Newcastle-on-Tyne;
Martin, Eric Gordon, Liverpool;
Milne, Ethel Callander, Aberdeen;
Minihan, Mary I., Newcastle-on-Tyne;
Newell, Leslie, Bradford;
Orr, Andrew Stewarton, Ayrshire;
Pemberton, John Joseph, Liverpool;
Pierce, Elizabeth Ford, Edinburgh;
Prestwich, Walter Kenneth, Barnsley;
Rhodes, Jean, Bradford;
Ryan, Stanley, Sheffield;
Sheriff, Rita Alillian, Sunderland;
Slinger, Maurice, Bradford;
Stewart, Roderick Montgomery, Glasgow;

Taylor, Harry Aitken, Dunfermline;
Wallace, Jean Annetta, Wallasey;
Walling, Isabella R., Seaham Harbour;
Watt, Sheila Mary, Liverpool;
Webster, Freda Elizabeth, Monkseaton;
White, James Laurence, South Shields;
Willan, Harold, Lancaster;
Wilson, James, Banff.

NATIONAL PHARMACEUTICAL UNION

THE July meetings of the Executive of the National Pharmaceutical Union and of the directors of the C.D.A. were held in London on July 24, when the CHAIRMAN (Mr. H. Steinman) presented the past-chairman's badges to Messrs. W. J. Tristram and E. A. Brocklehurst. On behalf of the Executive he asked the recipients to accept their badges as a pleasant reminder of their year of office and service to the Union. MESSRS. TRISTRAM and BROCKLEHURST suitably replied.

A report of the Accounts Committee and treasurer's report were adopted.

Standardisation of Measures

Further consideration was given to the standardisation of apothecaries' fluid measures, and suggestions were formulated for consideration at the next meeting of the British Standards Institution Drafting Panel Committee, with a view to securing their adoption.

Following negotiations with the Ministries of Health and Supply, a special liaison committee composed of representatives of the Pharmaceutical Society, N.P.U., and Wholesale Drug Trade Association was set up in order to secure effective liaison between the Ministries and bodies concerned with pharmaceutical affairs pending the advent of the new Health Service.

Purchase Tax

THE SECRETARY, on behalf of the N.P.U., attended a meeting of the Committee of National Trade Organisations in London, on July 10, when it was decided to support proposals for an amendment to the Finance Bill to be put forward by the Conservative Party. The amendment provided for a revised procedure in the event of removal or reduction of tax already paid by retailers. The Commissioner of Customs and Excise had been asked to meet a deputation to which the secretary (Mr. Mallinson) was appointed, in order to discuss the adoption of the method envisaged by the amendment.

THE SECRETARY reported that a discussion had taken place at the offices of the Ministry of Food, at which suggestions had been put forward for retail chemists to undertake the distribution of dried milk and welfare foods whenever the Minister was ready to consider transfer of distribution of these commodities at present being carried out by local food offices under the Ministry.

National Health Insurance

A report on a meeting of the Central N.H.I. Committee held on July 23 was submitted by THE CHAIRMAN (Mr. A. R. Melhuish). Correspondence between the Ministry of Health and the N.P.U. had resulted, at the request of the Ministry, in revised terms for the dispensing of certain penicillin preparations, details of which had since been forwarded to the trade Press for publication. MR. W. J. TRISTRAM (chairman of the Joint Committee) gave a detailed report of the developments arising out of recent meetings of the Joint Committee and the newly constituted Negotiating Committee on the new Health Service.

Consideration was given to the position of chemist contractors under proposals for the provision of a pharmaceutical service in rural areas when the new Health Service became operative. The result of the deliberations had been reported back to the Negotiating Committee.

Reports of meetings of the Chemists' Friends Council and Joint Industrial Council (employers' side) held on July 4 and 15 were received, and thirty-eight applications for membership of the N.P.U. were submitted and confirmed. A message of congratulation from the president of the P.A.T.A. on the twenty-fifth anniversary of the N.P.U. was received.

It was reported that arrangements had been completed to hold the N.P.U. branch representatives' conference at the Connaught Rooms, Great Queen Street, London, W.C.2, on October 23; branch secretaries were to be asked to forward resolutions for inclusion in the agenda for the Conference not later than September 14.

Chemists' Defence Association

The following settlements were made on behalf of members:— Damage to clothing and medical expenses, payment of £50; accident due to faulty grating, payments £56 6s. and of £150 for hospital treatment and professional fees. Legal advice in connexion with lease and tenancy problems, a war damage claim, and the Rent Restriction Act, was reported to have been provided by the Union's solicitors.

'TRIAD'CHERRY *Flavoured* MALT & OIL
COLD CURE CAPSULES
'VYTINA' TONIC TABLETS
HALIBUT OIL & MALT
TONIC PHOSPHATES
TIN OX TABLETS

John Bell
PRODUCTS

reliability remembered
demand undiminished
supplies somewhat short

JOHN BELL, HILLS & LUCAS LTD.
Oxford Works, Worsley Bridge Road, S.E.26

BURROUGH'S S.V.R.
60 gallons or less in 6 months requires no Control Licence.
James Burrough Ltd., 1 Cale Distillery, London, S.E.11

TRAGACANTH
SPECIALISTS IN B.P. POWDER
SAMPLES AND PRICES ON REQUEST
FREUDENTHEIL, SMITH & CO., 16 Philpot Lane, London, E.C.3.
MANsion House 1924 & 6600. Estd. 1826

BETTER *Advertising* & MARKETING

40 years' success with proprietary lines of national and international fame enable us to offer our clients many solid advantages. Our advertising sells goods at the lowest on-cost.
STUART HIRST, LTD.
Survey House, 15 Bond Street, Leeds, 1

To **Manufacturers, Processors, Retailers . . .**
Your responsibility to the public is unlimited.
Consult Indemnity Insurance Specialists:
TATE, EMES & CO., LTD.
(D) 323 HIGH HOLBORN, LONDON, W.C.1

RANKIN BROTHERS & SONS
(RANKINS PARTNERS, LTD.)
139 BERMONDSEY STREET, LONDON, S.E.1
for DISPENSING
CORKS
OWNERS OF THE FINEST CORK FORESTS IN PORTUGAL

JOHNS, SON & WATTS, LTD.
J.S. & W.
THE PACKAGING SPECIALISTS
Letterpress & Litho Cartons, Folding & Rigid Boxes, Packings for Special Purposes.
2-4 EPWORTH STREET, LONDON, E.C.2
'Phone: MONarch 7408 (3 lines)

WILCOX, JOZEAU
WHITE LION ST. LONDON, N.1
FOREIGN PROPRIETARIES
NOW MADE IN ENGLAND
TELEPHONES: TERMINUS 3088

DO NOT HOARD
your surplus or redundant stock of perfume and Toilet Bottles—Bakelite and Metal Caps.
TURN IT INTO CASH
Send samples and details to :—
S. KHAN
Norton Folgate, LONDON, E.1
BISHopsgate 3738/9

INFORMATION WANTED

Information with respect to suppliers of the following items would be appreciated:

Dentural S.X. shaving brush
Went & Co. corn planes (present address)

THE
CHEMIST AND DRUGGIST
Established 1859
for RETAILER — WHOLESALER — MANUFACTURER

Circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades and Industries in Great Britain, Eire, British Empire, and foreign countries

Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire.

VOL. CXLVI AUGUST 3, 1946 NO. 3469

Streptomycin, B.C.G., and Tuberculosis

THE recent focussing of attention in Britain on the use of streptomycin and on a vaccine known as B.C.G. (see below) as weapons useful in combating the encapsuled organism of tuberculosis, seems by no means before its time, in view of the heavy incidence of the disease. Latest figures for Britain show that the total number of notifications of pulmonary tuberculosis in 1944 was 43,794, against 34,930 in 1939. American figures show the mortality from tuberculosis in 1944 in Britain to be 61.9 per 100,000, in Scotland, 78.6, and in Eire, 130.4 per 100,000, compared with 40.8 per 100,000 in U.S.A. and 47.1 in Canada. The commercial distribution of streptomycin, it is reported, is to commence in U.S.A. on a limited scale on September 1, while in Britain, where the need is proportionately greater and the supply is nil (except when flown specially for individual cases), experimental work on streptomycin is only about to commence. The use of streptomycin should be seen, however, in proper perspective, and a caution against over-optimism was made by Dr. William H. Feldman, the Harben lecturer, to the Royal Institute of Public Health in London recently. In no instance of the use of the drug, he said, had the results been spectacular, but "for the most part" they were "highly encouraging."

As a result of a recent deputation to the Ministry of Health from organisations interested in improving the treatment and prevention of tuberculosis, Sir William Jameson (chief medical officer to the Ministry) has agreed to take steps to see if a "suitable vaccine" against tuberculosis can be made available in this country. The deputation presented a memorandum giving a full account of the history and achievements of B.C.G. vaccine. According to the "British Medical Journal" (July 27, p. 125), the vaccine is a tubercle bacillus of bovine origin, originally found by Calmette and Guérin, in 1908, to have lost its virulence after successive transfers on a bile-potato medium. This organism is injected as a living vaccine, and though practically non-pathogenic, it increases the resistance of the subject to subsequent infection with virulent tubercle bacilli. While B.C.G. has been used for human vaccination for more than twenty years, and has met with particular success in Scandinavia, certain aspects of its use are still the subject of controversy. The memorandum submitted to the Ministry points out that a single source of supply of the vaccine is desirable, and that the product should have behind it some form of official backing such as a Government Department or the Medical Research Council. Stringent precautions are required in its manufacture, as with that of vaccine lymph. As the material is living, neither heat nor antiseptic may be used, and tests for pathogenicity—since it must be used within ten days—cannot show results until later. The "B.M.J." urges that manufacture should be a Government responsibility.

Far-Eastern Produce

SEVERAL commodities whose origins lie in the Far East are of interest at the present time in view of the gradual return of commerce to conditions more nearly approaching normal. A large business was done on the London market in pre-war days in Japanese agar which found a diversity of uses in a number of important industries. Before the war Japan exported agar to the tune of about 3,000,000 lb. per annum, of which amount Great Britain took approximately 400,000 lb. While it may be feasible to supply sufficient agar from Empire sources to meet essential requirements over a considerable period of time, it is only by re-establishing the Japanese industry on something like its former scale that world

demand may adequately be met. While no definite information is available on this point it is obvious that some decision is in contemplation regarding the Japanese agar industry. Last week we reported (p. 126) suggestions in trade circles that the Government was considering bringing a quantity of agar from Japan. This week it is noted (p. 157) that the Japanese, or presumably the Americans in that country, intend to export stocks of agar to the United States "through Government channels for allocation to regular importers." Pre-war importers of the product in this country are well able to handle any supplies that may come along on Government account.

Latest advices from the Far East regarding the possibility of increased supplies of menthol from that source are not encouraging and it would appear that the South American product will hold for some time at least a virtual monopoly in the article. It is reported that nearly all the menthol production plants in China were destroyed by the Japanese and that the spasmodic offers of the drug now being received on the London market emanate from persons who have held stocks throughout the war. For this reason prices from China vary quite considerably while the quantities offered are small and of various brands. It is understood, however, that the Chinese producers hope to be able to swing into production in time to deal with the next peppermint crop on lines that will permit of a resumption of that country's considerable pre-war export trade in menthol.

The question of supplies of rhubarb and Sumatra benzoin has practically been solved by shipments of both these drugs now here or on the way. The position with regard to camphor is not an easy one. Recently importers were prevented from bringing in supplies of synthetic from America because of the difficult dollar exchange postition and were therefore obliged to turn to China for supplies of the natural product. Some consignments have arrived from that source but none is apparently up to the standard of the Japanese product, the best so far being 99.5 per cent. This parcel, which came from Formosa, was probably prepared under Japanese supervision. Chinese producers explain that as a result of destruction wrought during the war they are not ye able to produce the B.P. grade but hope t be in a position to supply this item in th not-too-distant future.

HERB CROP REPORT

Stafford Allen & Sons, Ltd.—Exception ally dry weather in Suffolk in April an May kept our crops back, but a fair re covery had been made when the rains di come. We had three nights of sharp fros in May which did little damage. Then w had a very heavy rainstorm at the begin ning of July which knocked the place abou a good deal and washed out quite a quan tity of small seedlings. ACONITE.—A smal crop but it is looking very well. BELLA DONNA.—Our older plantations have suf fered badly from attacks of flea beetle an these had to be ploughed up. Youn plants are slow in coming forward but the look fairly well now and we hope to get fair crop during the season. Our acreag is not as heavy as we should like. BROO TOPS.—We have again made extensive col lections of good-quality tops which w chiefly use for the manufacture of our spar teine sulphate. CHAMOMILE. — We ar afraid it is going to be only a moderate crop A good many plants died during th winter and the remainder was severel checked by early drought. CLARY SAGE —This looks very well and if the weathe only remains fine for the next few days good yield of oil should be obtained DILL.—This was looking very promisin but it was knocked about a good deal b the recent storms. We hope it will re cover and we shall get a normal crop DIGITALIS.—Was delayed owing to th early drought, and the plants being ver small some have been washed out by th heavy rain. We anticipate the crop will b rather smaller than last year. The sam remarks apply as above to *Digitali lanata,* but we think this should recove more than *Digitalis purpurea.* HYOS CYAMUS.—The second-year plant was a fai crop though not quite as large as we antici pated owing to lack of rain. The first-yea plant looks very well and will probabl quickly recover from the storms. LAVEN DER.—This looks very well and given reasonable amount of sunshine should pro duce a good-quality oil. POPPY PETALS.— A rather slow start was made but collectio is now going well owing to the increase o sunshine. VALERIAN.—Looking very wel but the crop is small.

BRITISH PHARMACEUTICAL CONFERENCE 1946

DISINTEGRATION TESTS FOR TABLETS

Abstracts of and Discussion on Two Papers Presented Independently at a Science Session of the Conference on July 16

WORK done independently by the authors of two papers presented on the subject of tablet disintegration tests showed a high degree of similarity in approach and result, though produced, it is understood, in ignorance of the other's experiments. Both derived from the conclusions arrived at by a contributor to the Science Sessions of an earlier conference, and the subject evoked considerable discussion, with a certain cut-and-thrust resulting from different views on the medicinal importance of rapid disintegration. The first paper was:—

Disintegration of Tablets

By H. HOYLE

[ABSTRACT]

Previous to the publication of the Seventh Addendum to the British Pharmacopœia, 1932, the only standards for tablets were those applied to the raw materials. The British Pharmacopœia now applies both physical and chemical control to the finished tablets and one of the standards is for disintegration. The paper is devoted to a consideration of an alternative method. Although the official standards for disintegration are, on the whole, generous, it may be unfair to condemn a batch of tablets because less than 90 per cent. of a small sample disintegrates within the limit, when it has been stated that the length of time a tablet could remain in the stomach can vary with the individual and his activities from one to ten or more hours with an average of 5.9 hours. The Pharmacopœia does not give a standard rate of movement of the tablets, which is affected by size, weight and density. The author offers criticisms of the present methods and describes an apparatus for the disintegration test that should be simple and easy to operate, and be able to test all tablets under identical conditions (quantity of disintegrating fluid, temperature, rate of movement of tablets; definite end-point; examination of rate and manner of disintegration).

Apparatus Described

In the apparatus five 50-mil Nessler tubes (B.S.S. No. 612) containing 50 mils of water at 37° C. are fitted into sockets in a framework inside a water-bath thermostatically controlled at 37° C. In each tube is suspended a small cylindrical basket made of 10-mesh gauze (B.S.S. No. 410), size ¾ in. diameter and 1 in. deep. The five baskets are fixed to a rod which can be moved up and down through a distance of 1 in. at any desired speed, say, sixty to 120 strokes per min., by means of a small electric motor. The rod is supported at the ends by hooks so that it can be easily detached from the apparatus. When the baskets are at the top of the stroke the bottom of the basket should just clear the water level and the best speed of rotation is about sixty complete strokes per minute, as with higher speeds the tablet is subjected to more unnatural treatment; it is also more difficult to observe the rate of disintegration and small tablets tend to "jump" too much. This apparatus was made with a variable speed in order to examine the effect of speed of movement on disintegration. The movement of the tablets on or against the gauze gives a "rubbing" effect such as they may encounter in the alimentary tract. The procedure is to place the five Nessler tubes containing 50 mils of fluid at 37° C. in the water-bath at 37° C.; place the dry baskets inside the tubes and fix the rod to the frame so that the baskets are at the top of the stroke; place one tablet in each basket; switch on and note the time; note the time required for complete disintegration. Results are tabulated of determinations of disintegration times for tablets of different manufacture; and of variations in the same batch; of the effect of temperature and speed of movement on disintegration time; and of comparative times of disintegration in water and artificial gastric fluid, and of effects of storage. (From the laboratory of W. B. Cartwright, Ltd., Rawdon, Leeds.)

In order to permit discussion simultaneously on the two papers, it was deferred until after the reading of the second, which was:—

A Disintegration Test for Tablets

By H. P. PRANCE, D. STEPHENSON AND A. TAYLOR

[ABSTRACT]

A simple apparatus has been used which, it is felt, meets criticisms of the Pharmacopœial method of testing the disintegration

of tablets. It has the additional merit that tests can be rapidly set up and changed over to other samples. In its simplest form the apparatus consists of a circular disc of non-rusting metal wire sieve of standard No. 10 mesh (see Appendix XVIII British Pharmacopœia, 1932) which is fastened across the end of a length of glass tubing 2.8 cm. ($1\frac{1}{8}$ in.) internal diameter, 3 to 3.1 cm. external diameter and approximately 7.8 cm. ($3\frac{1}{8}$ in.) long. At the opposite end is fixed a loop of fine strong wire which may be attached to a collar fitting round the tube. The tube is suspended in a 250-mil graduated cylinder so that it can be raised and lowered repeatedly through a distance of 7.5 cm. (3 in.) so that at the top of its stroke the gauze disc just breaks the surface of 250 mils of water in the measure, and at the bottom of the stroke the upper rim of the tube remains clear of the water.

Mechanism of Movement

The up and down movement of the tube or "cage" can be effected by employing a wooden wheel formed by joining together two circular pieces of plywood about 12 in. in diameter with bevelled edges to form a grooved pulley, and a simple transmission coupling of bent wires. The wheel must be provided with a bearing axle on which to revolve; it may be fixed by clamping at a suitable height to a retort stand, and may be turned by a water turbine or small laboratory electric motor. A fine wire nail is driven into the wheel (or into a wooden bar carried by the wheel) at exactly 3.75 cm. from the centre of axis, and over it the eye of the upper half of the transmission coupling is passed; the lower half moving in a bearing (a short length of stout-walled glass tubing clamped to the retort-stand) has a hook at its lower end over which the wire hoop of the cage is passed.

If it is desired to carry out tests at room temperature no further apparatus is required, but to maintain the water at 37° C. the measure should be stood in a glass sided tank such as a large accumulator jar filled with water kept at 37° C. throughout the period of the test. The end-point is reached when all the material of the tablets is seen to pass through the mesh as the cage comes to the top of its stroke.

This method of testing disintegration rates had been applied to a range of commercial tablets made by a number of well known manufacturers. A representative series of results was shown. Tests were carried out at 37° C., using five tablets for each test. In the majority of cases the end-point was reached in less than fifteen minutes and it would seem reasonable to set the limit of the test at the same time as that adopted for the present Pharmacopœia test. If this form of test be adopted for use in the Pharmacopœia, five tablets should be taken for each test. If the tablets fail to comply with the test it may be repeated twice. The tablets should then comply with the test twice out of three times. This will ensure that no sample is rejected because of an occasional abnormal tablet, but will permit the presence of only a small proportion of more slowly dissolving tablets in a borderline sample. The method, it was claimed, has the following advantages over the test at present official in the British Pharmacopœia: (*a*) the apparatus required is simple to make and use; (*b*) the end-point is sharp and the method provides a definition of "disintegration"; (*c*) the progress of the test can be observed continuously. (From the Wellcome Chemical Works, Dartford.)

Discussion

Mr. Bull, from the chair, thought that the length of time of 5.9 hours (during which a tablet could remain in the stomach) mentioned by Mr. Hoyle, was much greater than the usually accepted duration. He inquired whether there had been any possibility of a cutting action by the wire gauze, and whether an exact time of disintegration was regarded as valuable. He thought it would be generally accepted that a limit was better than an exact timing. Had the author any explanation of the hardening of grey powder tablets on keeping?

Mr. H. Finnemore, London, asked whether there was any reason why a simple aspirator could not have been used for the experiments.

Mr. G. Clark, London, reporting on similar experiments he had made on a smaller scale, said that in these the disintegration had had a sharp end-point, but that clogging had sometimes occurred in the mesh.

Mr. Stevenson, London, described experiments carried out with apparatus consisting essentially of a U-tube with a large and a small arm. In the large arm was placed a sintered glass disc upon which the tablet rested. Air bubbles blown through the solution caused the tablet to rotate on its own axis and in the solution. In his opinion the disintegration rate was a matter of porosity, which in turn was largely a matter of the excipient used. The size of the starch granule was also important.

Mr. I. Michaels, London, offered a criticism of Hoyle's scientific approach. He thought the author should have produced

a standard tablet in the first place and then worked out a coefficient of variation.

Mr. A. Nutter-Smith, Nottingham, said that the work carried a stage further the investigations which Berry and himself had recorded at the 1944 Conference, but the original aim had been not to find disintegration times but to eliminate unsatisfactory tablets. In his view a simple method was adequate for routine testing. The purpose of the tablet must also be considered. For example a tablet of calcium lactate might be prepared with or without excipient according to whether or not a clear solution was desired. His experience of storage had been that some tabletted preparations softened on keeping while others hardened.

Mr. S. G. E. Stevens, London, suggested that the authors of both papers were making the mistake of treating all human beings as reacting alike. There were people who could not swallow tablets but broke them up into small pieces before swallowing. How did this breaking effect the rate of disintegration? The question was also affected by the lubricant used, for all the usual lubricants were water-repellants. With broken tablets, porosity came into play straight away. He suggested that medical opinion should be sought on the desirable times of disintegration.

Mr. H. Burlinson, Ashton-under-Lyne, considered the present pharmacopœial test closely followed practical conditions.

Mr. M. F. Hersant, Hove, referred to the breakdown of certain tablets into large granules and asked if that was regarded as satisfactory. There were also tablets which, in contact with water, would swell but not break down.

Sugar-coated Tablets

Mr. G. R. Page, Liverpool, mentioned that both the British Pharmaceutical Codex and the Pharmacopœia appeared to fight shy of breakdown tests for sugar-coated tablets. Had any work on these been carried out by the authors?

Mr. Howard, Liverpool, said he had found a hot-air bath better than a water-bath for carrying out disintegration tests and that transmitted light facilitated observation of the end-point. The published formula for artificial gastric juice neglected the factor of viscosity, and he would also like to know the effect of the salival juices on disintegration rate.

Mr. Peck, London, drew attention to a general improvement that had taken place in tablets on the market since the presentation of the paper by Berry and Nutter-Smith. It was possible that too much emphasis was now being placed on disintegration. The speaker reviewed the problem from the point of view of the manufacturer of tablet machinery.

Mr. K. Bullock, Manchester, suggested that there might be danger in a too-rapid disintegration.

Dr. C. H. Hampshire, London (secretary, Pharmacopœia Commission) expressed appreciation of the papers and discussions. He sympathised with the point of view put forward by Mr. Finnemore that a simple aspirator might serve for the tests, but assured him that such was not the case. Before including a test in the Pharmacopœia it was necessary to be sure that uniform results would be obtained at the hands of different workers.

Authors' Replies

Mr. Stephenson, replying for the authors of the second paper, agreed that the importance of disintegration could be overemphasised, but said that, when the Pharmacopœia included a test, it was necessary to devise means by which uniform results could be obtained from it. The standard gauze employed was found to ensure a good end-point, and he assured members of the Conference that cutting action was eliminated by the "simple harmonic motion" imparted to the rise and fall of the tablet in solution by means of the apparatus devised. There had been no difficulty with gummy substances, and it had been noted that a fall in disintegration rate was often accompanied by oxidation.

Mr. Hoyle, winding up, gave his reference to the work from which the time of rest of tablets in the stomach had been quoted. He agreed that exact disintegration times might not be of general use, but said they were useful as a control. He had carried out certain experiments on broken-up tablets, and had found that the disintegration time was speeded up, but had not investigated the comparative times. He had also applied tests to sugar-coated tablets, and had found that the time for removal of the sugar-coating was of the order of two minutes. The effect of saliva was to speed up disintegration, and it might be said that, in general, disintegration of tablets in the body was more rapid than under the test.

Medical Journal's Abstracting Service

The "British Medical Journal" is to add to its publishing activities an abstracting service from the medical Press of the world. Two abstracts monthly will be issued, commencing in January 1947. One will be on medicine; the other on surgery, etc.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

The monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on July 19. The president (Mr. James McDowell) was in the chair, and others present were Mr. J. W. Gray (vice-president), Mr. J. McGregor (treasurer); Messrs. Walter O. Tate, J. Glendinning, H. H. Cowzer, C. Abernethy, J. F. Grimes, H. F. Moore, J. E. Connor, Dr. S. E. A. Acheson, and Professor E. B. C. Mayrs. The President welcomed the new secretary (Mr. W. Gorman).

A letter was read from the Ministry of Home Affairs concerning the salary to be paid to the chairman of the Statutory Committee and, on the motion of Mr. H. F. Moore, seconded by Mr. Cowzer, it was decided to fix the sum at £52 10s. for the first year and to reconsider the sum at the end of the period. The Ministry also wrote that in view of the decreasing number of druggists on the Register the number of representatives would be reduced from three to one by not filling the vacancies when two representatives retire during the next two years. The Ministry nominated Mr. F. R. Moore to represent the wholesale drug trade on the Council for a further period of three years.

The Secretary reported that the Council's solicitor had considered Clause 7 of the appendix to Appendix C of the Society's new regulations, and had recommended that it should be rescinded as it might be found ambiguous. Notice of motion was given, and the matter is to come before the next meeting. The clause defines "pupil" as "any person, other than a *bona-fide* medical student, undergoing a practical course of study, including the compounding and dispensing of medicines, whether or nc for one of the qualifications of the Societ and whether or not under an apprentice ship agreement."

New Members Congratulated

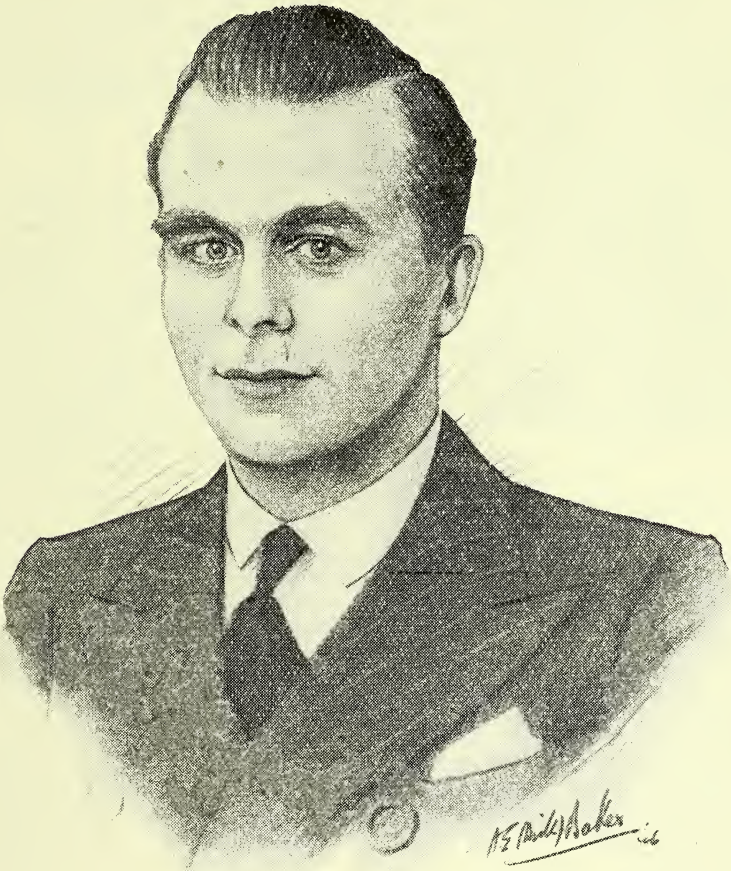
On the motion of Mr. Tate, seconded b Mr. Glendinning, the seal of the Societ was affixed to the certificates of th twenty-three students who had been suc cessful at the Qualifying examination i June. The report of the Board of Exam iners was adopted on the motion of Mr Cowzer, seconded by Mr. Gray.

It was decided that the secretar should make further inquiries into th possibility of establishing a department c pharmacy at the College of Technolog Belfast. The following committee was ap pointed to make arrangements for th Society's coming-of-age dinner to be hel in December: Messrs. McDowell, Gra McGregor, H. F. Moore, Aberneth Nicholl, Cowzer and Grimes. The Pres dent mentioned the talk to be given b Mr. J. N. Patterson (pharmacy inspecto on the new Poison Regulations in the Co lege of Technology, Belfast, on July 31, an later in provincial towns.

The President presented certificates t a number of candidates who had been suc cessful at the June examinations. Th letters M.P.S.N.I., after their names, h said, not only signified added authority, bu increased responsibility, and he advised ne members to take an active interest in th Society and other drug trade organisation Dr. Acheson, Professor Mayrs, Messr Connor, Gray, Abernethy and Tate als congratulated the new members.

WORKS VISIT.—A party of about sevent members of the North Staffordshire Branc of the Pharmaceutical Society visited th headquarters of Evans Medical Supplies, Ltd., Speke, Liverpool, recently. After a tou of the workshops Mr. I. V. L. Fergusson (chairman and managing director of the company Mr. O. N. T. Davenport, and members of the staff entertained the visitors to dinne

CHIEF OFFICIALS OF DRUG AND PHARMACEUTICAL ORGANISATIONS



Mr. J. S. WALMSLEY, M.P.S.

Secretary, Proprietary Association of Great Britain

No. 24. Specially drawn from life for The Chemist and Druggist

BRITISH PHARMACEUTICAL CONFERENCE 194

SCIENCE PAPERS

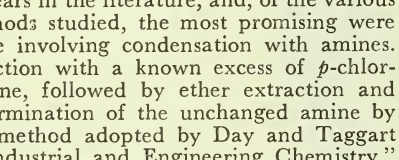
(*Continued from* THE CHEMIST AND DRUGGIST, JULY 27, *p.* 118)

A Study of the Equilibria in Solutions of Neutral Derivatives of Sulphonamides

BY H. J. BARBER AND J. H. WILKINSON

[ABSTRACT]

The work arose out of an attempt to find a means of evaluating cinnamic aldehyde bis-bisulphite in relation to its use for preparing the drugs under discussion. No method for the assay of the substance appears in the literature, and, of the various methods studied, the most promising were those involving condensation with amines. Reaction with a known excess of *p*-chloraniline, followed by ether extraction and determination of the unchanged amine by the method adopted by Day and Taggart ("Industrial and Engineering Chemistry," 1928.20.545) suggested a relationship between the amount found and the excess of *p*-chloraniline used. This in turn indicates the possibility of the equilibrium:—



Further evidence for this was obtained by dissolving cinnamylidene-(*p*-chlor)aniline in a solution of sodium bisulphite. The authors decided to investigate the possibility of equilibration in the three compounds if a practical method of extracting free sulphonamides could be devised. It was observed that cyclohexanone was a good solvent for the three sulphonamides, but it was thought preferable to use methylcyclohexanone on account of its lower solubility in water. The first results were high, probably due to interference by traces of the solvent. This source of error was removed by washing the alkaline solution with ether, prior to acidification, and quantitative results were then obtained. A series of solutions of the three compounds were made up, some containing an excess and others a deficiency of cinnamic aldehyde bis-bisulphite, and the *p*H of each was adjusted to 8.0 ± 0.05. It was subsequently found that in the case of the sulphapyridine compound non-reproducible results were obtained at this *p*H, but these became consistent at *p*H 7.0. Each solution was allowed to stand at least forty-eight hours at 20° C to attain equilibrium, but equilibrium in the solutions of the sulphathiazole compound was much more slowly reached, so a fortnight was allowed. Free sulphonamide was determined by titration; from this and the amounts of aldehyde bis-bisulphite used the molar concentrations of the compound and uncombined bis-bisulphite were calculated.

Mean Values

The results for each substance are considered to be sufficiently close to indicate that in each case the compound exists in solution in equilibrium with its components. The following mean values, which were obtained by expressing the results graphically, were considered sufficiently accurate for the purposes of this work:—

Sulphathiazole compound: $K = 6.6 \times 10^{5}$
Sulphapyridine compound: $K = 2.7 \times 10^{5}$
Sulphanilamide compound: $K = 11.7 \times 10^{5}$

Assuming that the total volume of the blood is about 5.5 litres (307 gm./mol.) and that blood behaves as water for the purposes of the discussion, it is possible to calculate the blood concentration of sulphathiazole and sulphapyridine following the administration of the solutions. (From the research laboratories of May and Baker, Ltd.)

DISCUSSION

DR. F. HARTLEY suggested that the hydrolytic reaction must be more complex than had been indicated in the paper. Were the compounds truly represented by the formulas given, he asked, and had the molecular weights been determined? Dr. Hartley expressed regret that the Pharmacopœia Commission had reserved the term "soluble" for the sodium salts of such insoluble compounds, thus driving others to adopt new terms.

DR. PHILLIPS declared that the solubilising method dealt with in the paper was not new, and instanced such compounds as sulpharsphenamine. It was a mistake, he considered, to dismiss drugs as uninteresting because they were apparently inactive on first tests. Interest in other compounds from well into the past might well be revived. In particular, the surface-tension-reducing properties of sulphonamides might be investigated.

Dr. Foster said he had never been able to get results that would suggest a definite formula for some compounds of the group.

Mr. Wilkinson replied to the questioners that he had done no work on the molecular weight of the compounds; it was quite probably higher than was represented by the formula given. Nor had he worked on surface phenomena. To Dr. F. Dyer he replied that practical difficulties had so far prevented work on dissociation constants in the blood.

The Stability of Adrenaline Solutions

Part III. Storage of the proposed Solution of Adrenaline Hydrochloride and Injection of Adrenaline Tartrate

By G. B. West

[Abstract]

In two previous communications to the British Pharmaceutical Conference, the optimum conditions for stability and storage of solutions of adrenaline in hydrochloric acid and in tartaric acid were indicated. Following these conclusions, formulas were suggested for two preparations of adrenaline, one an ordinary solution for making non-sterile preparations and the other an injection intended for parenteral administration, as shown below:—

Solution of Adrenaline Hydrochloride

Adrenaline	1 gm.
Sodium metabisulphite ...	1 gm.
Dilute hydrochloric acid	3 mils
Distilled water to	1000 mils

This is the present Pharmacopœial solution without sodium chloride and chlorbutol but containing metabisulphite. No heating process was suggested, as the solution need not be sterile.

Injection of Adrenaline Tartrate

Adrenaline acid tartrate	0.19 gm.
Sodium chloride ...	0.9 gm.
Sodium metabisulphite	0.1 gm.
Distilled water to	100 mils

This injection was to be sterilised by autoclaving, except in the case of multiple-dose containers which were to be sterilised by heating to a temperature of 98° to 100° C. for thirty minutes in the presence of a suitable antiseptic.

Optimum Conditions

Solutions prepared according to these formulas, including some with slight modifications, were retained for long periods to obtain confirmation of the optimum conditions for stability as found for short periods at high temperatures, most of the storage results being set out in the paper.

Solution of adrenaline hydrochloride (1 in 1000 of base) with 0.1 per cent. of sodium metabisulphite was found to retain its full potency when stored in 60-mil white glass-stoppered bottles for eighteen months at 19° C. in the dark. Loss of activity was shown when stored for eighteen months at 19° C. in the light or for twelve months at 37° C. The optimum conditions for storage of the solution appeared to be small, well-filled, well-closed containers, protected from light and stored in a cool place. Injection of adrenaline tartrate (1 in 1000 base) with 0.9 per cent. of sodium chloride and 0.1 per cent. of sodium metabisulphate was found to retain its full potency after sterilisation and storage for eighteen months at 19° C. in the dark, when contained in vaccine bottles and in full and nearly-full ampoules. Loss of activity was shown when half-full autoclaved ampoules were tested; on the other hand, no such loss was found in similar ampoules sterilised by steaming (98° to 100° C. for thirty minutes) in the presence of an antiseptic. The optimum conditions for storage of the injection of adrenaline appeared to be well-filled, sealed containers, protected from light and stored in a cool place. (From the College of Pharmaceutical Society.)

Discussion

Mr. T. D. Whittet asked if difficulty had been found with the rubber caps of Clinbritic bottles during storage of the solution from absorption of metabisulphite, Dr. Foster asked why the tartrate, "a more stable compound" had not been suggested for the solution of adrenaline as well as the injection.

Dr. H. Davis, replying on behalf of Professor Berry and Dr. West, agreed that difficulty had been experienced with certain batches of rubber caps, but suggested that absorption was not the complete explanation. It would be advisable, however, to store the caps in a solution of metabisulphite prior to use, as Mr. Whittet had in fact been doing. The reason for leaving the hydrochloride in the formula for adrenaline solution might have been connected with the difficulty of supply and cost of the tartrate. Dr. Davis suggested that the 0.1 per cent. of chlorocresol was adequate for the purpose of "sterilisation by heating with a bactericide," and maintained that the official proportion of 0.2 per cent. for the purpose was too great, often giving rise to crystalline deposits on storing.

(*To be continued*)

CANADIAN NOTES

Pond's New Factory in Toronto.—Pond's Extract Co. have opened a new factory in Toronto, in a modern building with 30,000 sq. ft. of floor space. Mr. E. A. Williams takes over duties as plant manager.

Seidlitz Powders Restrictions Lifted.—Restrictions governing packaging and maximum price regulations for seidlitz powders have been lifted by the War-time Prices and Trade Board.

Business Changes.—Mr. A. H. Elder has been appointed chairman of the board of National Drug & Chemical Co. of Canada, Ltd., and Mr. C. H. Lander has become president and general manager. Mr. H. L. Waters has been named president of A. A. Ayer Co., Ltd., manufacturers of pharmaceutical products, on the retirement of Mr. A. A. McKergow after forty-five years with the company. Mr. J. E. Cregan becomes vice-president and Mr. A. R. McKergow joins the board of directors.

More Women Enter Pharmacy.—Officials of the Ontario College of Pharmacy state that in 1940 only 5 per cent. of the student druggists enrolled were women, while this year over 40 per cent. are women.

Better Control of Streptomycin Wanted.—Canadian medical interests are seeking more effective control in the introduction into the Dominion of the new antibiotic, streptomycin. Local medical scientists and clinicians have deplored the injudicious use of sulphonamides and penicillin, which, they claim, has greatly lessened the value of these two drugs.

Chain Store Convention.—The National Association of Chain Drug Stores held its annual convention at the Manoir Richelieu, Murray Bay, from June 8 to June 13. About half the members lived aboard the SS Richelieu, Canada Steamship Lines cruise ship that carried convention members from Montreal to Murray Bay.

A Complete Insurance Plan.—An employee security plan, said to be unique in its completeness, has been announced by the Bristol-Myers Co. of Canada, Ltd. Embracing every phase of the employee's working life, the plan provides insurance against sickness, medical expenses, disability, unemployment and death. The programme will be extended to all employees and its cost will be borne by the company. A feature of the plan is that no distinction is made between on- or off-the-job occurrence of sickness or accident.

Grants for Pharmacy Study.—Mr. J. R Kennedy, president of the Canadian Foundation for the Advancement of Pharmacy has announced the award of grants totalling more than $4,000 to promote the study of pharmacy in Canada. Grants were made to the Ontario College of Pharmacy, $250 School of Pharmacy, Laval University $600; School of Pharmacy, University of Montreal, $6,000; University of Alberta $500; C. W. Nash, University of Manitoba $400 for post-graduate studies; Ontario College of Pharmacy, $1,800 for deserving students. The Canadian Foundation for the Advancement of Pharmacy is a non-profit making organisation supported by business firms in the drug and pharmaceutical industries. One of the chief aims of the organisation is to assist in maintaining and improving pharmaceutical education in Canada.

Twenty-first Anniversary Function.—A banquet, attended by 600 employees, held by Ayerst, McKenna & Harrison, Ltd. biological and pharmaceutical chemists, at the Windsor Hotel recently, marked the company's twenty-first year of operation A welcome to all employees returning after serving with the armed forces and to new employees who were in the services was extended by Mr. W. A. Leslie, president and general manager. Tribute was paid to Mr. W. A. S. Ayerst, who recently retired as president, by Mr. W. J. McKenna vice-president. Mr. Ayerst was also presented with a handsome token of esteem on behalf of the employees. Bonus cheques for long and loyal service were presented to a number of employees.

Total Ban on Opium and Morphine Sought.—The Canadian Senate public health committee recently recommended without amendment a Bill to change the Opium and Narcotic Drug Act so as to eliminate the use of opium or morphine in any medicine sold without a doctor's prescription. Under the present Act small quantities of these drugs may be included in medicines sold without a prescription, but when the control of narcotics passed under the War Measures Act neither opium nor morphine could be used. The amendment to the Act is being brought in now so that, when the control again passes to the health department, the war-time regulations will be continued. Under the amendment, medicines may contain small quantities of codeine when sold without a prescription.

OVERSEAS TRADE NEWS

Uruguayan Linseed Crop.—The second official estimate of the Uruguayan linseed crop for 1945-46 is placed at more than 125,000 tons, compared with 103,000 tons last year.

German Zone Transfer of Supplies.—Reuter reports from Berlin that the Soviet zone of Germany is to send 15,000 tons of chalk, 500 tons of sulphur and five tons of saccharin to Bavaria in the U.S. zone.

Canadian Penicillin Factory for Poland.—Polish representatives have left for Toronto to take over a penicillin factory offered to Poland by Canada. The factory will shortly be transferred to Poland.

Americans Increase Penicillin Output in Germany.—A Frankfurt dispatch states that penicillin output in Germany, especially at the works of the I.G. Farbenindustrie, at Hoechst, in the American zone, is to be stepped up to avoid imports from abroad. It may, however, take two years to attain the target figure of 1,000 million units per month.

U.S. Olive Oil Restriction.—Edible olive oil, which was removed from U.S. controls in July, 1944, is again placed under import restrictions because of the shortage in the United States. The oil, now being obtained in exchange for soyabean oil which is under international food allocation, is badly needed in the U.S. and import control has been deemed necessary to prevent its re-export.

Australia Revises Penicillin Prices.—A Sydney message states that because British-made penicillin is cheaper than Australian, the Commonwealth Government may add an import duty. British penicillin is reported to be selling at 3s. 7d. per dose, against 10s. per dose for the Australian product. A later message from Sydney states that the cost of Australian produced penicillin is to be nearly halved, so that the import duty planned for the British product may be unnecessary.

Revised Indian Lac Crop Estimate.—The revised production of the Baisaki summer lac crop this year is estimated to be 1,047,250 maunds as against the final estimate of 635,250 maunds last year. With general rain during April and May, and with moderate summer heat, the climatic conditions have so far been almost ideal for the development of lac incrustations. If the weather continues to be so favourable until the end of this month, a further small increase in the final report may be expected.

Illegal Cascara Stripping.—A message from North Vancouver states that thousands of cascara trees throughout the district are being stripped of their bark and left to die. The practice is being carried on, it is said, even in populated sections by persons without permits. Similar stands of cascara trees in the north-west United States were improperly harvested to the point of extinction, sending the price of British Columbia cascara soaring and creating a virtual "black market."

Drugs for British Zone of Germany.—The Control Commission announced on July 25 that insulin, penicillin, cod-liver oil and certain foods will have to be imported into the British zone of Germany to control disease. Former Wehrmacht medical stores are being handed to the civil population, the Commission disclosed. It is stated that medical supplies available in Germany are sufficient to meet only the minimum essential requirements of the civil population. The statement adds that penicillin is being used solely for the treatment of venereal disease.

Argentine Oils and Fats.—An international fats and oils mission will investigate and possibly conclude a new agreement for "claimant country" purchases of Argentina's exportable surpluses of oils and fats. The mission comprises one delegate each from France, the Netherlands, Denmark and Sweden, together with Mr. Knight, the British Ministry of Food representative. It it understood that the Belgian representative is already in Buenos Aires. The mission may consult with the United States Ambassador to Argentina during the proceedings.

Brazilian Pyrethrum Crop. — The 1945-46 pyrethrum crop of the State of Rio Grande do Sul is estimated at 2,000 tons which is about 40 per cent. higher than the previous crop. The favourable crop result is due to good weather, less insect damage and an increase in the area under pyrethrum during the war. About 100 tons of new-crop pyrethrum have been sold to Brazilian firms for home consumption, with requirements estimated at 200 tons. Further, about 400 tons are destined for Argentina, and 100 tons for other South American markets, leaving an exportable surplus, mainly for North America, of 1,300 tons.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary according to brand or grade.

28 Essex Street, W.C.2, July 31

BUSINESS during the past week has been on a limited scale, due partly to the usual seasonal lull and in some measure to the fact that many principals are now on holiday. Prices on the whole are firmly maintained with changes amounting to only a few pence either way for a limited number of products. Makers and dealers in PHARMACEUTICAL CHEMICALS report a continuance of steady conditions in these markets with prices at the levels recently recorded. The supply position is about unchanged, with reasonable stocks of most items available.

Crude Drugs

Business in these commodities has continued on the quiet, steady note reported throughout the past month, with values fully maintained. Any improvement in business is unlikely until after the holidays. No developments have occurred in the position of AGAR which continues in good request; it is of interest to note, in view of recent suggestions that the Government is contemplating the importation of Japanese supplies, that a similar suggestion is reported from the United States (p. 157). The forward value of Cape ALOES remains at the higher level noted last week. The parcel of Sumatra BENZOIN reported afloat last week has now been sold, but further supplies are to follow on a later steamer. The landed price of 1946 crop CASCARA SAGRADA tends to be above that previously reported. CASCARILLA QUILLS are in good demand at an unchanged price. CLOVES and other SPICES are quiet at former quotations. COLOCYNTH is selling slowly. Price of MENTHOL from Brazil is coming in a shade higher on the week; it is reported that Chinese production plants were destroyed by the Japanese and for that reason offers from China are small at widely varying prices. Shipment quotations for Cochin NUX VOMICA are firmly maintained. A few price changes have occurred in WAXES.

Essential and Expressed Oils

Prices of these items show no change on the week. Business is quiet. No further removals from the scheme of distribution have been notified.

Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:—

Centre	Quoted	July 31
*Alexandria ...	Piastres to £	$97\frac{3}{8}$–$97\frac{5}{8}$
Brussels	Francs to £	$176\frac{1}{2}$–$176\frac{3}{4}$
Copenhagen ...	Kroner to £	19.32–19.36
Dutch West Indies	Florins to £	7.58–7.62
Oslo	Kroner to £	19.98–20.02
Paris	Francs to £	479.7–480.3
Lisbon	Escudos to £	99.80–100.20
Montreal	Dollars to £	4.02–4.04
New York ...	Dollars to £	$4.02\frac{1}{2}$–$4.03\frac{1}{2}$
Stockholm ...	Kroner to £	14.47–14.50
Zurich	Francs to £	17.34–17.36

* Free market rate.

U.S. Drug Market Report

New York, July 26

AN INCREASE in the price of GLYCERIN featured the FINE CHEMICALS markets this week. SILVER SALTS are all in exceedingly tight supply as a result of the bullion position; the quotation for SILVER NITRATE jumped 13 cents per oz. to 60 cents and similar advances in SILVER CYANIDE, PROTEINATE and NUCLEINATE are forecast. Trade in MENTHOL has been dull over the past week and no further increase in the quotation has been recorded; it now seems certain that no substantial supplies will be available from either China or Japan for the major consuming season in the U.S. which starts in September. While there has been some improvement in the QUININE supply situation, it is expected that allocation through Government agencies will continue. MERCURY declined during the week though a moderate export demand is reported. It is expected that shipments of Norwegian COD-LIVER OIL to this country will decline substantially in the near future, as there is sufficient stock here to cover domestic requirements up to the end of the current year. About 250 drums of this material are reported to have arrived here from Great Britain recently. It is announced that STREPTOMYCIN will be distributed commercially on a limited scale from September 1. There is a good export demand for most fine chemicals but it is feared that owing to limitation of supplies even for the domestic market, many orders

will go unfulfilled. Most MEDICINAL DRUGS are still quoted at the low levels prevailing under the Office of Price Administration but items such as BLACK PEPPER and NUTMEG have shot up in face of limited stock. The tight situation which developed in RHUBARB ROOT when shipments from India stopped, has been relieved by substantial exports to this country from China. Stocks of AGAR in Japan are to be exported to the U.S. through Government channels for allocation to regular importers, according to reports in trade circles here. Other recent arrivals on the local market include about 2,000 bales of BARBASCO ROOT from Brazil, a large quantity of Dutch CARAWAY SEED and the first delivery for several years of Greek PSYLLIUM SEED. Higher prices now being offered for certain botanical drugs are expected to result in increased domestic collections and production. Featuring the ESSENTIAL OILS market last week was the arrival of large quantities of BERGAMOT and LEMON from Italy. Other imports included some CITRONELLA from Ceylon, a few drums of natural CAMPHOR from Hong Kong and a few cases of ORANGE from Brazil. A shortage of suitable containers is hindering immediate deliveries of certain essential oils.

Pharmaceutical Chemicals

ACETANILIDE.—Steady at 2s. 5d. per lb. for powder, and 2s. 6d. for crystals.

AMPHETAMINE.—Makers' price continues at 150s. per lb.

BISMUTH SALTS.—Current prices per lb. for CARBONATE in quantities of 14 lb.-28 lb. are as follows (containers in brackets): 13s. 0½d. (1-lb.); 12s. 11½d. (2-lb.); 12s. 11d. (4-lb.); 12s. 10d. (7-lb.); 12s. 9½d. (4-lb.). CITRATE, 2s. per lb. above; SALICYLATE, 6d. per lb. above; SUBGALLATE, 4s. 3d. per lb. above; SUBNITRATE, 1s. 2d. per lb. below the prices for carbonate.

BORAX AND BORIC ACID.—Present prices are:—

Compound	Commercial per ton		B.P. quality per ton	
	£	s.	£	s.
BORAX				
Granulated	30	0	38	0
Crystal	31	0	39	0
Powder	31	10	39	10
BORIC ACID				
Granulated	52	0	60	0
Crystal	53	0	61	0
Powder	54	0	62	0

Packed in 1-cwt. bags, delivered carriage paid in Great Britain, in 1-ton lots and upwards.

BROMIDES.—POTASSIUM, in quantities of 28 lb., is quoted at the following rates per lb. (containers in brackets): 3s. 2½d. (1-lb); 3s. 1d. (4-lb.); 3s. (7-lb.); 2s. 11½d. (14-lb.); 2s. 10½d. (28-lb.). SODIUM, 1½d. per lb. less, and AMMONIUM, 1½d. per lb. more, than above prices. Prices are net, without engagement.

BRUCINE.—Makers' prices per oz., are as follows:—

Compound	Under 25 oz.		25 oz. and under 100 oz.		100 oz. and under 500 oz.	
	s.	d.	s.	d.	s.	d.
Alkaloid ...	1	4½	1	4	1	3½
Nitrate ...	1	3½	1	3	1	2½
Sulphate ...	1	3½	1	3	1	2½

CHLORAL HYDRATE.—Current prices are as follows: 1 cwt., 3s. 10d. per lb.; 56 lb., 4s.; 28 lb., 4s. 2d.; 14 lb., 4s. 6d.; 7 lb., 4s. 9d.; less, 5s. 3d.

CITRATES.—Home market prices per lb. for POTASSIUM are as follows:—

Containers	1 lb.		4 lb.		7 lb.		14 lb.		28 lb.	
	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
Under 4 lb.	4	0½	—		—		—		—	
4 lb.– 7 lb.	3	11½	3	10	—		—		—	
7 lb.– 14 lb.	3	10½	3	9	3	8	—		—	
14 lb.– 28 lb.	3	9½	3	8	3	7	3	6½	—	
28 lb.-112 lb.	3	8½	3	7	3	6	3	5½	3	4½

Prices net one month. 1 lb. and 4 lb., in bottles or tins; 7 lb. and 14 lb., in bottles, tins or jars; 28 lb., in tins. FERRI ET AMMON. CIT., B.P., 3d. per lb. above; SODIUM, B.P., 3d. per lb. below; POWDER, 1d. per lb. extra.

CODEINE.—Prices per oz. current in the home market are: PURE, ½ oz., 51s. 9d.; 1 oz., 49s. 3d.; 2 oz., 47s. 9d.; 3 oz., 47s.; 4 oz., 46s. 9d. HYDROCHLORIDE, ½ oz., 46s. 4d.; 1 oz., 44s.; 2 oz., 42s. 6d.; 3 oz., 41s. 9d.; 4 oz., 41s. 6d. PHOSPHATE, ½ oz., 40s. 9d.; 1 oz., 38s. 3d.; 2 oz., 36s. 9d.; 3 oz., 36s.; 4 oz., 35s. 9d. HYDROBROMIDE and IODIDE, as PURE; SULPHATE, as HYDROCHLORIDE.

DIAMORPHINE.—Prices per oz are: PURE, ½ oz., 54s. 6d.; 1 oz. 52s.; 2 oz., 50s. 6d.; 3 oz., 49s. 9d.; 4 oz., 49s. 6d. HYDROCHLORIDE, ½ oz., 50s. 3d.; 1 oz., 47s. 9d.; 2 oz., 46s. 3d.; 3 oz., 45s. 6d.; 4 oz., 45s. 3d.

ETHYLMORPHINE.—Current rates per oz., in the home markets are: PURE, ½ oz., 57s. 6d.; 1 oz., 55s.; 2 oz., 53s. 6d.; 3 oz., 52s. 9d.; 4 oz., 52s. 6d. HYDROCHLORIDE, ½ oz., 49s.; 1 oz., 46s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 44s.

IODINE PREPARATIONS.—As noted recently, home quotations have been advanced by threepence per lb. New rates per lb. are as follows: POTASSIUM IODIDE, B.P.—112 lb., 9s. 6d.; 28 lb., 10s.; 14 lb., 10s. 6½d.; 7 lb., 12s. 0½d.; 4 lb., 12s. 6½d.; smaller quantities, 13s. per lb. SODIUM IODIDE, B.P.—28 lb., 10s. 5d.; 14 lb., 10s. 11½d.; 7 lb., 12s. 8½d.; 4 lb., 13s. 4½d.; smaller quantities, 14s. 2d. IODOFORM, B.P.—28 lb., 13s. 7d.; 14 lb., 14s. 1½d.; 7 lb., 16s. 3½d.; 4 lb., 17s. 1½d.; smaller quantities, 17s. 11d. IODOFORM CRYSTALS, 2s. per lb. above powder prices. IODINE RESUBLIMED, B.P.—112 lb., 10s. 11d.; 28 lb., 11s. 5d.; 14 lb., 11s. 11½d.; 7 lb., 13s. 9½d.; 4 lb., 14s. 4½d.; smaller quantities, 15s. 10d.

LACTATES.—Prices are as follows: LACTIC ACID.—Six-winchester lots, 3s. per lb.; smaller quantities, 3s. 1d. CALCIUM LACTATE.—Small quantities, 2s. 5d. per lb. CALCIUM SODIUM LACTATE.—Powder, small lots, 3s. 7d. per lb.; 14 lb., 3s. 4d.; 28 lb., 3s. 2d.; granular, one penny per lb. extra.

MAGNESIUM CARBONATE, LIGHT.—Home market schedule is as follows (prices per lb.):—

Quantity	In containers of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.
1 lb.– 4 lb.	1 9	—	—	—	—
4 lb.– 7 lb.	1 8	1 6½	—	—	—
7 lb.–14 lb.	1 7	1 5½	1 4½	—	—
14 lb.–28 lb.	1 6	1 4½	1 3½	1 3	—
28 lb.–1 cwt.	1 5	1 3½	1 2½	1 2	1 1

MANDELIC ACID.—In good demand. Current quotations are as follows: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

PHENOLPHTHALEIN.—Current prices are: 1 cwt., 4s. 10d. per lb.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.

POTASSIUM PERMANGANATE. — Current rates are as follows: B.P. (in 1-cwt. drums), 1 cwt. and over, 1s. 8½d. per lb.; 3 cwt. and over, 1s. 8d. TECHNICAL (in 1-cwt. drums), 1 cwt. and over, 166s. 3d. per cwt.; 3 cwt. and over, 161s. 9d.; 5 cwt. and over, 159s. 3d.; 1 ton and over, 156s. 9d.; 4 tons and over, 154s. 3d. TECHNICAL (in 5-cwt. drums), 5 cwt. and over, 156s. 9d. per cwt.; 1 ton and over, 154s. 3d.; 4 tons and over, 152s. Terms net, carriage paid to nearest station, containers extra and returnable.

PULV. BISMUTH. CO., N.F.—Current rates per lb. in the home market, in quantities of 28 lb.-112 lb., are as follows (containers in brackets): 2s. 9d. (1-lb.); 2s. 8d. (2-lb.); 2s. 7½d. (4-lb.); 2s. 6½d. (7-lb.); 2s. 6d (14-lb.); 2s. 5d. (28-lb.).

THEOBROMINE.—Prices per lb., in quantities of 28 lb., are as follows: ALKALOID, B.P.C., 30s. 6d.; CALCIUM SALICYLATE, 19s. 3d.; SODIUM SALICYLATE, 19s. 3d.

Crude Drugs

AGAR.—The position as outlined last week (p. 126) is unchanged.

ALOES.—Forward value of Cape is now 140s. per cwt., c.i.f. Curaçao is firm at 250s., c.i.f.; spot 300s.

ANTIMONY.—Demand continues at the high level recorded recently. Officially approved prices are unchanged as follows: Minimum 99.6 per cent. regulus, £132 10s. per ton; minimum 99 per cent., £125; 70 per cent. crude, for the home trade, £105 per ton, delivered.

ARECA NUTS.—Steady at 70s. per cwt. on spot; shipment, 50s., c.i.f.

BALSAMS.—*Canada* is offered on the spot at 14s. 6d. per lb.; *Peru*, steady at 8s., duty paid, and 7s. 6d., in bond. *Tolu* and *Copaiba* are unobtainable.

BENZOIN.—The parcel afloat is reported to be all sold at £25 per cwt., landed weight. Further supplies are to follow.

BISMUTH.—Minimum 5-cwt. quantities of metal are quoted at 9s. per lb.

BUCHU LEAVES.—Obtainable on the spot at 4s. 9d. per lb.

CARDAMONS.—Aleppy seeds are quoted on the spot at 8s. 6d. per lb.; and Aleppy greens at 7s. 6d.; Mangalore heavy are priced at 6s. 6d.

CASCARA SAGRADA.—No further developments are reported in the position of this article. Price of 1946 peel seems to be up to 300s. per cwt., landed duty paid.

CASCARILLA.—Quills are in demand on the spot at 2s. 9d. per lb.

CHAULMOOGRA.—*Hydnocarpus* is quoted on the spot at 2s. per lb., in tins in cases.

CHILLIES.—In quiet demand. Mombasa, spot sellers at 150s. per cwt.; shipment, August-September, 140s., c.i.f., buyers' licence.

CINNAMON.—Chips can be bought on the spot at 2s. 2d. per lb.

CLOVES.—Quiet, with spot sellers in London at 1s. per lb for Zanzibar; shipment, August-September, 9¾d. per lb., c.i.f., buyers' licence.

COCHINEAL.—Silvers may be had on spot at 5s. 6d. per lb., and blacks at 5s. 9d.

COCOA BUTTER.—Price continues to be fixed at 1s. 5½d. per lb., ex factory or warehouse, except under licence.

COLOCYNTH.—Rather slow of sale at 2s. 9d. to 3s. per lb.

DIGITALIS LEAVES.—Portuguese is unaltered on spot at 130s. to 140s. per cwt., and English at 2s. 6d. per lb.

ERGOT.—Spot quotation is unchanged at 7s. 6d. per lb., with afloat material at 7s.

GUM ACACIA.—Kordofan cleaned sorts is firm on spot at 77s. per cwt.; bleached, steady at 150s.; Talha, cleaned, 42s. 6d.

HENBANE.—Indian leaf is firm on the spot at 250s. per cwt.; Egyptian (*muticus*) may be obtained at 90s.

KARAYA GUM.—Quotations for Indian No. 1 gum are steady at 200s. per cwt., on the spot.

KOLA NUTS.—Current spot prices are: African quarters, 8d. per lb.; African halves, 6d.; Jamaican washed halves, 7d.

LIQUORICE ROOT.—Spot price of natural Anatolian is from 85s. to 90s. per cwt.; cut root is at 110s.

MENTHOL.—Price from Brazil is coming in at 41s. to 42s. per lb., f.o.b. Prices from China vary considerably at from 43s. to 50s. per lb., c.i.f.

MERCURY.—Prices are controlled by the Control of Mercury (No. 11) Order, 1945 (S.R. & O., 1945, No. 1129) (*C. & D.*, October 13, 1945, p. 388).

NUX VOMICA.—Shipment quotation for Cochin is holding firm at 40s. per cwt.

ORANGE PEEL.—Fine-cut Tripoli, spot, 4s. 9d. to 4s. 10½d. per lb. Spanish quarters, 2s. 9d. Spanish sweet ribbon would be worth 2s. per lb.

PEPPER.—Whole, not picked over or cleaned, on sale to processors, is officially priced at 1s. 4d. per lb. for white pepper and 1s. per lb. for black pepper.

PIMENTO.—In quiet demand. Sellers on spot quote 1s. 2d. per lb.; shipment, 122s. 6d. per cwt., c.i.f., buyers' licence.

QUILLAIA BARK.—Natural, spot, 125s. per cwt.; cut, 145s.

RHUBARB.—Common-round now landing will be available at 12s. to 14s. per lb., duty paid, according to quality.

SAPONIN.—Chilean, in bond, ex wharf, Liverpool, 9s. per lb.

SEEDS.—Current prices of imported seeds are as follows: CORIANDER.—Spot, Indian, 95s. per cwt., ex wharf, London; Moroccan 95s. CUMIN.—Spot, Indian, 205s., ex wharf, London; Moroccan quoted at 190s., in bond, ex wharf, London. CELERY.—Spot, Indian, 1s. 6d. per lb., Liverpool. DILL.—Spot, Indian, 67s. 6d. per cwt., ex store, Liverpool; quoted 70s., ex wharf, London. FENNEL.—Spot, Indian, 160s., ex wharf, London. FENUGREEK. — Spot, Indian, 67s. 6d., ex store, Liverpool; 70s., ex wharf, London.

SENEGA ROOT.—Offers now stand at 14s. 6d. to 15s. per lb., landed U.K., for fairly early shipment from Canada.

SHELLAC.—From July 30 shellac consigned from any country may be imported without a separate import licence. An open general licence has been issued to that effect.

SQUILL.—Some brown material is quoted on spot at 45s. per cwt.

TRAGACANTH. — Selected grades are quoted at £155 per cwt. Medium grades are quoted as follows: No. 1 white, £145 per cwt.; No. 2 white, £125; No. 3 white, £110; No. 4 white, £85; pale leaf, £50; amber leaf, £50; dark amber, £35; brown leaf, £25; red-and-brown leaf, £20; red leaf from £17; hoggy, £12 to £15.

TURMERIC.—Spot, Madras finger, 95s. per cwt., ex wharf, London; 92s. 6d., ex store, Liverpool.

VALERIAN.—Belgian root is available on spot at 250s. per cwt.

WAXES.—Current rates for CARNAUBA are: Fatty grey, spot, 1,030s. per cwt.; chalky, 980s.; prime yellow, 1,200s.; fatty grey, afloat, 1,000s.; prime, afloat, 1,100s. BEES'.—quoted on the market as follows: Dar-es-Salaam, spot, 340s. per cwt.; afloat, 335s., c.i.f.; forward, 345s. Benguela, spot in bond, 298s. OURICURI.—Spot, nominal; shipment, July-August, 6 per cent., 620s., c.i.f. CANDELILLA.—Spot 490s. per cwt.; to arrive, 490s. landed.

Essential and Expressed Oils

CASTOR.—Bulk supplies are quoted as follows: "Firsts," £82 per ton; "seconds," £80, both naked ex works.

CLOVE.—English distillers continue to quote bud oil at 12s. per lb.

COCONUT.—Bulk supplies of crude oil continue at £49 per ton, but refined deodorised was recently advanced by £7 per ton to £56. Refined hardened deodorised was increased by £7 per ton to £60. All prices are naked ex works.

COTTONSEED.—Official quotations are as follows: Crude, £52 2s. 6d. per ton; washed, £55 5s.; refined edible, £57; refined deodorised, £58, naked ex works.

TRADE MARKS

(From "The Trade Marks Journal," July 17)

"LOR-ODO"; for deodorisers in solid form (4). By Parfum L'Orlé, Inc., 6 East 39th Street, New York City, N.Y. 631,837.

"CLARSUL"; for pharmaceutical preparations for the treatment of skin affections and parasiticides (5) By Carbonisation et Charbons Actifs, 50 bis Rue de Lisbonne, Paris (8), France. 637,338.

"CALOKOL"; for pharmaceutical preparations for internal human use (5). By Bengué & Co., Ltd., Mount Pleasant, Alperton, Wembley, Middx. 637,634.

"SNOWKAP"; for antiseptics and disinfectants (5). By George Wright Taylor, 40 Duncombe Street, Walkley, Sheffield. 638,982.

"SULFEDEXAN"; for pharmaceutical substances for human and veterinary use, being sulphur compounds (5). By Abbott Laboratories (England), Ltd., Wadsworth Road, Perivale, Middx. 639,255.

"TONENE"; for medicated preparations for internal human use (5) By Medo-Chemicals, Ltd., 178 Pentonville Road, London, N.1. 639,679.

"PIXIE"; for pharmaceutical preparations for internal human use (5) By Ashe Laboratories, Ltd., 120-22 Victoria Street, Westminster, London, S.W.1. 639,783.

"SECT-A-BOO"; for insecticides (5). By Beacon & Janis, Ltd., Victoria House, Vernon Place, London, W.C.1. 640,004.

"TOILEX"; for medicated toilet paper (5). By Reginald Malcolm Broadhead, Westmount, Seaview Road, Broadstairs, Kent. B640,160.

"MICKIES"; for insecticides, fungicides and preparations for killing weeds (5). By Ashe Laboratories, Ltd., 120-22 Victoria Street, Westminster, London, S.W.1. B640,234.

"GONOSTOL"; for endocrine preparations (5). By W. J. Rendell, Ltd., Hardwick House, 161-65 Rosebery Avenue, London, E.C.1. 640,360.

"DODET"; for disinfectants and preparations for killing weeds and destroying vermin (5). By Newball & Mason, Ltd., Beech Avenue, New Basford, Nottingham. 640,402.

"VERTOLAN"; for pharmaceutical products (5). By Roussel Laboratories, Ltd., 95 Great Portland Street, London, W.1. 640,453.

"CISP"; for ointments for human use (5). By Bernard White, Craigmount Park, Edinburgh, 12. 640,805.

"REPROSTAT"; for photographic apparatus, and parts thereof not included in other classes (9). By Miles Aircraft, Ltd., The Aerodrome, Woodley, Berks. 638,850.

"SUCCIL" on band encircling the globe; for electrical apparatus and instruments not included in other classes, scientific apparatus, optical apparatus and instruments (9). By Callender-Suchy Developments, Ltd., Hamilton House, Victoria Embankment, London, E.C.4. 640,240.

"DURO"; for glassware, being scientific apparatus (9). By Duro-Glass, Ltd., Blackhorse Lane, Walthamstow, London, E.17. 640,372 (Associated).

"TRIAS"; for lenses (9). By W. Watson & Sons, Ltd., 14 Hadley Grove, Barnet, Hertfordshire. 640,843.

(From "The Trade Marks Journal," July 24)

"ALKESTANE"; for chemical products used in industry; chemical products used in agriculture, horticulture and forestry (other than insecticides, fungicides and preparations for killing weeds); manures (natural and artificial); chemical substances for preserving foodstuffs; tanning substances (1). By Imperial Chemical Industries, Ltd., Wexham Road, Slough, Bucks. 638,523 (Associated).

"FERTILINE"; for cosmetic preparations (not being toilet preparations) (3). By John Francis Neot Kinder, 257 James Street, Oshawa, Ontario, Canada. 639,631.

CORRESPONDENCE

Dispensing by the Unqualified

SIR,—I have read the comment on this subject (*C. & D.*, July 27, p. 122) by R. S. Whitelaw, following on that of Mr. Wilson whose letter I did not see. I have to ask myself again, what do these people mean by such a suggestion? What further rights do the pharmacists require by law? I have known many many pharmacists who, in my opinion, are in no way superior in character or ability to assistants of a parent body: the Apothecaries' Society.

Yours faithfully,
London, W.10. G. H. PALMER.

Pharmacists' Clothing Coupons

SIR,—May I express publicly the thanks which are due to Mr. Belcher (Parliamentary Secretary to the Board of Trade) from several thousands of pharmacists and assistants employed in dispensing who, but for his sagacious decision to reopen the "industrial ten" issue for a limited period would, as a result of belated applications, have lost, for the rationing period 1945-46, the right to the issue of coupons for which the National Pharmaceutical Union had been pressing for so long. Thanks are also due to Dr. Clitherow, M.P., who took up the matter with the Parliamentary Secretary at our request. The issue of coupons for the clothing period 1945-46 must end with that period at July 31, 1946. One of the conditions on which the Board of Trade accepted our representations that pharmacists who had, for one reason or another, delayed their applications, should have a further period of grace, was that we should not issue clothing coupons in respect of any application made after July 31. It will therefore be understood that we shall have no alternative but to reject applications made after the closing date of July 31, to which considerable publicity has been given. It is understood that the "industrial ten" issue for the clothes rationing period 1946-47 will be announced in late 1946 or early 1947, and applications should then be made through the usual channels, viz., the Ministry of Labour local office.

Yours faithfully,
G. A. MALLINSON, *Secretary,*
National Pharmaceutical Union.
London, W.C.1.

BURGOL
ANTISEPTIC

An Antiseptic of the Popular
"PARA-CHLOR-META-XYLENOL" TYPE

Can be recommended for general, medical and personal use. The pleasant aroma attained by incorporating Ti-tree Oil makes an instant appeal to the discriminating user.

NON-POISONOUS
SAFE AND RELIABLE
3 TIMES STRONGER THAN PHENOL
(Rideal-Walker Test)
FORMS A CLEAR SOLUTION IN ALL PROPORTIONS WITH WATER
A WORTHY MEMBER OF THE FAMOUS
RED DIAMOND BRAND SERIES

In two sizes: 4 oz. and 16 oz. Bottles.

BURGOYNE BURBIDGES
Established 1741. & COMPANY LIMITED, **LONDON, E.6**

FINEST QUALITY

SOLUBLE AND FRUIT

ESSENCES

ESSENTIAL OILS

PERFUMERY AND SOAP COMPOUNDS

★ ★ ★

ESTABLISHED 1870

C. W. FIELD

LIMITED

Offices & Works:

EDWARDS LANE, SPEKE, LIVERPOOL 19

Phone: Hunts Cross 1345-6-7
Grams: Cambrian, Liverpool

London	*Dublin*
3 Great James St.	16 Rutland St.
Bedford Row, W.C.1	Parnell Square
Telephone: HOLborn8251	*Telephone:* 21162

GRAESSER SALICYLATES LIMITED
Manufacturers of Fine Chemicals
SANDYCROFT
CHESTER, ENGLAND

PHENYL SALICYLATE B.P.C.

(SALOL)

Available in the form of Crystalline Powder for which we invite your enquiries

Telephone:- MAN HOUSE 6877 5 Lines

A. REVAI & CO. LTD.

7-8, IDOL LANE LONDON, E.C.3.

GLANDULAR PRODUCTS

FINE CHEMICALS

EUCALYPTUS OIL B.P.

LABELS *for* COSMETICS TOILETS and PERFUMES

350 *Stock Wordings*

Write to-day for Samples

SESSIONS · EBOR PRESS · YORK

The purposes increase daily for which DDT/GEIGY can be used with success. The latest information upon methods of application for textile, paint, pharmaceutical, veterinary, sanitary, horticultural, agricultural, and other purposes is at your disposal.

DDT/ GEIGY

PHARMACEUTICAL LABORATORIES GEIGY LTD., NATIONAL BUILDINGS, M/c 3.
STAFFORD ALLEN & SONS LTD., 20 WHARF ROAD, LONDON, N.1.

D.8.7

DRING

CARDBOARD BOXES, CARTONS

Our considerable resources and specialized knowledge, are at your disposal. Our aim is prompt and intelligent service. May we assist in planning your future requirements.

Tel: Portsmouth 74448.

J. DRING LTD., *Sales Office*, 34, Harley St., Portsmouth.

Manufacturers of **TANNIC ACID** (Bulk Supplies Only)

ALL QUALITIES

THE BRITISH DYEWOOD COMPANY LTD.
19 St. VINCENT PLACE, GLASGOW, C.1

Telephone: CENTRAL 4425 *Telegrams: DYEWOOD*

RELY UPON
"Graesser" QUALITY ALWAYS
PHENOL
ORTHO CRESOL
CRESYLIC ACIDS
META-PARA CRESOLS
XYLENOL MIXTURES

All prepared and standardised under direct personal control

R. GRAESSER LTD.
The Chemical Works, Sandycroft, nr. Chester

L

INDUSTRIAL *and* FINE CHEMICALS

including :

HYDROGEN PEROXIDE

Benzoyl Peroxide
Calcium Peroxide
Magnesium Peroxide
Sodium Perborate
Sodium Percarbonate
Titanium Dioxide
Urea Hydrogen Peroxide
Zinc Peroxide

LAPORTE
B. LAPORTE LIMITED, LUTON. Eng.

LABELS OF DISTINCTION
FOR WHOLESALE MANUFACTURING & RETAIL CHEMISTS

Medical and Dispensing Labels, Toilet, Cosmetic and Perfume, largest range of stock labels (attractive two-colour 50-60 wordings), Shampoo Powder Envelopes and Inners, also Saccharine Tablet Envelopes (new wording), with name and address. We can also offer multi-coloured advertising stamps in exclusive designs.

NEW REGULATIONS—
Send 6d. for complete sample range

CARILLON PRESS LTD
Artists in the Production of Fine Labels
BOURNEMOUTH

SUBA-SEAL
"REGD" TRADE MARK
THE PERFECT CLOSURE FOR ALL TYPES OF
BOTTLES, VIALS, TUBES, etc.

WILLIAM FREEMAN & COMPANY LIMITED
SUBASEAL WORKS, PEEL STREET
BARNSLEY
Telegrams: "SUBASEAL, BARNSLEY" Telephone: BARNSLEY 3779

LIQUID FILLING MACHINES

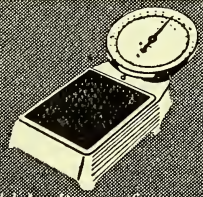
VACUUM OPERATED
FITTED WITH UNIVERSAL FILLING ATTACHMENTS AND MANUFACTURED TO THE LATEST DEVELOPMENTS AND DESIGN.

Supplies in Stock for Home Market and Export.

EKEM ENGINEERS
11, ANDOVER PLACE, MAIDA VALE, LONDON, N.W.6.

SALTER

Self-Indicating
Personal & Baby
SCALES

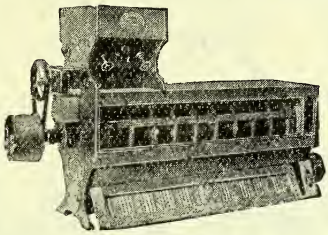


Now sold by licence for essential use
Details on request

GEO. SALTER & CO. LTD.,
WEST BROMWICH

USED SUCCESSFULLY ALL OVER THE WORLD

For FINEST POWDERS
at LOWEST COST



All enquiries to
Wm. GARDNER & Sons
(Gloucester) Ltd.
Bristol Road
GLOUCESTER, Eng.
Telephone :
Gloucester 2288
(3 lines)

GARDNER'S

Patent "QUICK-CHANGE"
fine
POWDER DRESSER

INDIA EXPORT & IMPORT

Leading and Reputable Established Business House having its Headquarters in the Presidency of Calcutta, India, are interested to import the following articles manufactured in U.K. :

1. Scotch Whisky, etc.
2. Perfumeries and Toilet requisites.
3. Patent and proprietary medicaments.

Enquiries are also solicited from firms with good bank and trade references for export to U.K. of "CROSSE'S REMEDIES."

CROSSE & HOOPER, LTD., 31 Park Mansions, Park St., Calcutta. Grams : Croshoop.

IT'S A NATIONAL DUTY
TO
KILL'EMOFF

DEVERMINATOR RAT AND MOUSE EXTERMINATOR
LICENCE NO. 10421
MADE TO ONE OF THE FORMULÆ OF THE MINISTRY OF FOOD

RATS 2/- - MICE 1/3 - PER TIN

DEVERMINATORS LIMITED
126, Great Church Lane, LONDON, W.6
RIVerside 4930

MITCHELL

RAPID MIXING and STIRRING UNITS

can be obtained in a wide range of sizes from small Laboratory models of $\frac{1}{60}$th or $\frac{1}{8}$ H.P up to those of 10 H.P capable of handling mixing on a large scale. Portable or fixed models give flexibility of planning.

L. A. MITCHELL LIMITED
37 PETER STREET, MANCHESTER 2

mx.8
Telephone: BLAckfriars 7224 (3 lines)

In better supply for holiday trade

Lil-lets
TRADE MARK

THE IMPROVED SANITARY TAMPON

Production of 'Lil-lets' has increased —Chemists can now obtain reasonable supplies on demand from their wholesaler. Availability of 'Lil-lets' plus their holiday appeal, presents an opportunity. It is being emphasised by current advertising.

Because 'Lil-lets' do not require an applicator, they are compact. A carton of twelve measures only 5½" x 1¼" x ½". This is helpful in holiday packing. 'Lil-lets' have medical approval. They are safe, incapable of chafing, and invisible under holiday clothes.

SELLING AT

per carton of 12 tampons . 1/9d.

BUYING AT

per dozen cartons net . 15/4d.

There is advantage also to you — minimum space in display. Order from your usual Wholesaler.

Made in England by
T. J. SMITH & NEPHEW Ltd., Hull,
Makers of Elastoplast

CARTON DESIGN

Designing is one of the services we offer. A skilled and experienced staff designs new cartons and redesigns old cartons

Good designs cost no more to reproduce than the not-so-good. Well-conceived layouts in one or two colours are extremely effective while three or more colours give scope to the artist and distinction to the carton

BOXFOLDIA LTD
BOURNBROOK, BIRMINGHAM

Grams: 'Boxfoldia, Birmingham'
Phone: Selly Oak 1164

ALMAR ELASTIC . ADHESIV FIRST-AID DRESSING AND DRESSING STRIP

ENQUIRIES TO

THE SURGICAL SUPPLY CO
9 CUMBERLAND STREET . GLASGOW . C.

PERCENTA

Containers of Metal, Glass, Aluminium and Plastic.

PERCENTA LTD. (Dept. No. 3) 69-73 Borough High Street London, S.E.1
Tel. HOP. 1808/3751.

The Original

HOGG'S 'EETLE-ROACH

Now contains D.D.T.

Kills Beetles, Cockroaches, Ants, Crickets, Steamflies, Flies, Lice, Bugs, Etc.

1/- and 5/- per box

Trade Prices : 8/- and 40/- per doz.

M. C. Hogg & Co., 91 Upper Brook St., Manchester, 13

Surgical Dressings

LINTS · BANDAGES
COTTON WOOL
PLASTER MUSLIN
MATERNITY PADS
GAUZE

ONLY WHOLESALERS SUPPLIED

Carus OF DARWEN

HODDLESDEN MILL · HAMPDEN MILL · ATLANTIC MILL · SPOTLAND BRIDGE MILL

Those who know NORTHERN IRELAND know

Belfast Telegraph

The newspaper with the largest circulation in Northern Ireland. Read in the homes of the people throughout the whole of this important industrial and agricultural part of the UNITED KINGDOM

HEAD OFFICE: ROYAL AVENUE, BELFAST.

LONDON OFFICE: 112 FLEET STREET, LONDON, E.C.4

Elastoplast
TRADE MARK BRAND
BANDAGES & DRESSINGS
Prescribed by the Medical Profession
T. J. SMITH & NEPHEW, LTD. NEPTUNE ST., HULL

When the Shelves are full again . . .
See to it that your goods "pack a Sales-punch." When the customer once again has freedom of choice, ensure success by specifying
. . . SIDAC
CELLULOSE
TRANSPARENT WRAPPING
Send your enquiries to :—
BRITISH SIDAC LTD. Works: ST. HELENS, Lancs.
Southern enquiries to : 12 Ufton Rd., Downham Rd., N.1

Our Representatives will call more often

Now that all our representatives are back from the Forces, we are able to arrange for calls to be more regular and frequent than of recent years. You will receive a call approximately every four months, when orders will be collected on the basis of the quotas allocated under our Retail Distribution Scheme.

The following districts will be covered during the rest of the summer:

JULY — London (W. and S.W.), Hampshire, Lancashire, Norfolk and Warwickshire.

AUGUST — London (S.E., W.C., E., N. & N.W.), Buckinghamshire, Derbyshire, Dorset, Hertfordshire, Wiltshire and Yorkshire.

SEPTEMBER — Berkshire, Cheshire, Essex, Oxfordshire, Shropshire, Staffordshire and Sussex.

Our standing with the public

Throughout the War years and the present difficult period, the high quality of our products has been fully maintained. For example, with regard to Optrex we have kept resolutely to our belief that "only the best is good enough for the eyes" even though this has meant, of course, severely limiting supplies. Our standing with the public remains, therefore, as high as ever.

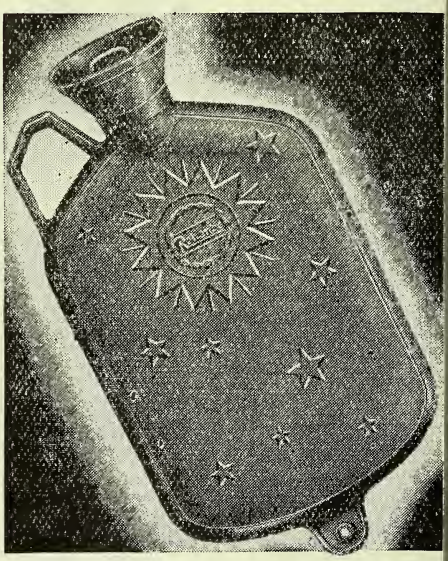
Advance information

Optrex Eye Compresses will shortly be available. Full particulars from our representative when he calls.

OPTREX LIMITED

PERIVALE · MIDDLESEX

THE KEYSTONE OF RELIANCE SUCCESS IS CHEMICAL RESEARCH



Specialising in rubber technology for over 50 years this organisation has made a notable contribution to the surgical, industrial and home applications of rubber. Introducing and perfecting, in Britain, the seamless moulded rubber hot water bottle, we have constantly striven to improve the research and production techniques which have resulted in the present superior quality, versatile colour range and durability of Reliance products. These features have caused a vigorous and ever-growing demand, but a high proportion of output is reserved for Export.

Reliance

RELIANCE RUBBER CO. LTD., LOTS ROAD, LONDON, S.W.10

Telephone: Flaxman 6200 and 0985/6
Telegrams: "Doorstop," Fulroad, London

Alka-Seltzer's *here!*

Big advertising, plus its own solid merit, built up wide acceptance for ALKA-SELTZER before the war.
Now this popular alkalizing analgesic is available again. Lively, compelling advertisements, posters, cinema slides, etc., will send ALKA-SELTZER customers, old and new, to your shop. Order ALKA-SELTZER today — display it in your window — let your customers know you can supply them.

Made by: **Miles Laboratories Ltd.**
Sole Distributors:
Don S. Momand Ltd., 57 Albany St., London, N.W.1

P.A.T.A.

"ZEMS"

HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

Supplies may be obtained from C.F. Wholesale Houses

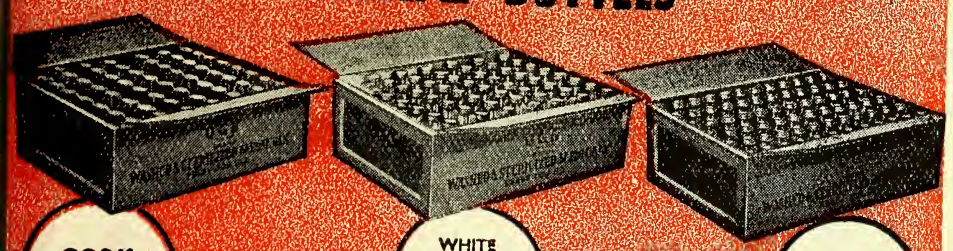
ZEMS, LTD.

718-724 Seven Sisters Road, London, N.15

GREATER THAN EVER IS THE DEMAND FOR

U.G.B

MEDICAL BOTTLES



CORK MOUTH

WHITE ENAMELLED METAL SCREW-CAP

BORKALITE MOULDED CAP

WASHED AND STERILISED
—READY FOR USE—
THE IDEAL
DISPENSING BOTTLE
IN ANY EMERGENCY

UNITED GLASS BOTTLE
MANUFACTURERS LTD.
The Largest Manufacturers of Glass Bottles in Europe
8 LEICESTER STREET, W.C.2
Telephone: GERrard 8611 (10 lines)
Telegrams: Unglabonan, Leaquare, London

A DISPLAY OF RENDELLS PRODUCTS

W.J. RENDELL LTD., 161, ROSEBERY AVE., LONDON, E.C.1

NORTH BRITISH

RUBBER PRODUCTS

for the Druggists' Trade

HOT WATER BOTTLES · VULCANITE COMBS
CIRCULAR AIR CUSHIONS · WATER BEDS
WATERPROOF SHEETINGS

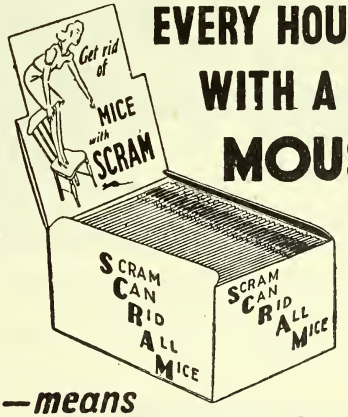
★

Order through your Wholesaler

THE NORTH BRITISH RUBBER COMPANY LTD. EDINBURGH & LONDON

'Pharmitex' PURE TOILET TISSUE is post war quality and for *Chemists only.*

HAROLD WESLEY LTD.
HARLEY MILLS, LONDON, N.W.10



EVERY HOUSE WITH A MOUSE

—means another customer for

SCRAM

Send **25/6** for **3** dozen **1/-** Pkts.
From most wholesalers or direct:—
SCRAM: 5 DARTMOUTH PK. HILL, LONDON, N.W.5

WORLD'S LARGEST SALES

SPRIM

(Triple Cleansing Strength Ammonia)

We are glad to advise our many friends in the trade that, due to an improvement in supplies of bottles for this National Favourite, we can now resume deliveries where these were interrupted or curtailed through war conditions. Extensive National and Local Advertising will increase your turnover. Tie up with adequate stocks and a prominent display. Orders must, of necessity, be handled in strict rotation.

Send your order now!

BRITISH DISINFECTANT CO. LTD.

TOTTENHAM, N.15

'What do you recommend for those horrible beetles?"

RODINE

Phosphorus

BEETLE & COCKROACH POISON

7½d. and 1/3

T. HARLEY LTD. . PERTH . SCOTLAND

DABitoff, the home dry cleaner, is non-inflammable, economical because the pad prevents spilling and waste, and will last the whole bottle. Retails at 1/9.

National advertising reaches millions. Attractive new display stands make big sales.

YOUR PROFIT ON EACH BOTTLE IS SEVENPENCE.

DABitoff DRY CLEANER

CHEMO-PLASTICS LTD. 59/60 Old Bailey, E.C.4

Sole Distributors :

THOS. CHRISTY & CO. LTD., FARNHAM, SURREY

Your Customers Will Need

NUTILIS

DERRIS/D.D.T. POWDER (MIXED)

1/- *The dual purpose insecticide* 2/6

NUTILIS PRODUCTS LTD., Kingston-on-Thames

BATTLE'S VERMIN KILLER

IN PACKETS

5d., 9d., 1/3, 2/6, 5/-, P.A.T.A.

WHOLESALE AT

3/-, 5/6, 9/-, 18/-, 36/- per doz.

Order some today from your wholesaler

D.D.T. FLY PAPERS!!

At last death to flies

No more sticky messy flypapers, here is the amazing D.D.T. for sale in an unique form. NO mess, NO trouble, the seasons best seller. Repeat sales at once. Write for sample order now. Retails at 4½d. Cost 36/- per gross. Orders executed in rotation.

Sample gross C.W.O. Trade enquiries invited.

B.B. INSECTICIDES, 2 Belgrave Parade, Stoke Poges Lane, SLOUGH, BUCKS

Flyol

CONTAINING D.D.T.

CONCENTRATED INSECTICIDE

Bad for all insect pests
Good for quick Sales!

Sole Agents to the Chemist Trade: HARLEY SIMMS & CO., 20, FRIAR LANE, LEICESTER.
Sole Manufacturers: FUBEX LIMITED, 27, ALBEMARLE STREET, LONDON, W.1.

A JEYES' PRODUCT

THE COMPLETE ANTISEPTIC

Now available for civilian use

GOES THREE TIMES AS FAR AS ORDINARY ANTISEPTICS

4 oz. BOTTLE in attractive carton,
1/9 *including Tax.*
Pharmacists' Discount 33⅓%

SPECIAL INTRODUCTORY OFFER

3 doz. Bottles, with
PLASTIC SHOWCARD
EXTRA 5% DISCOUNT

National Advertising Campaign

CHEMISTS FORMULA

Advertised in Medical Press

JEYES' LABORATORIES LIMITED
LONDON, E.13.

GARDINERS *for* OVERALLS

LONG OVERALL COATS (SHRUNK)
Men's. White or Khaki 13/9, 15/-.
Women's Overalls. Cross-over style. White, Khaki, Navy, Green, Saxe - 11/9.
Coats and Overalls: 3 coupons.

Men's Super White Drill Jackets - 8/6, 9/11.
Jackets: 2 coupons.

State Chest measurement. Cash and coupons with order. Satisfaction Guaranteed.

Postage: 1 coat, 7d.; 2 coats, 9d. Orders over £2, carriage paid.

GARDINER & CO. (THE SCOTCH HOUSE) LTD.
1 3 & 5 COMMERCIAL ROAD, LONDON, E.1
Opposite Aldgate East Station 'Phone · BIS 6751 (3 lines)
Branches: DEPTFORD, S.E.8; WOOLWICH, S.E.18
CLAPHAM, S.W.11

Lime, Orange, Raspberry and Peppermint flavoured Sulphur Tablets, 15, grain size. Also Bronchial Tablets, Laxative Tablets and Peppermint Dyspepsia Tablets, Packed in packets or in bulk. Prompt delivery. For further details apply: 951/521 C. & D. Office.

DETTOL BRAND OINTMENT
HEALING AND ANTISEPTIC

AMERICAN ROLAND CORPORATION
16 HUDSON STREET, NEW YORK 13, N.Y.
Pharmaceutical Chemicals
Alkaloids
Hormone and Endocrine Products
Vitamin Products
Botanicals and Essential Oils
Hydroxicitronellal
Cable Address: Bioroland New York

BRADFORD EDUCATION COMMITTEE

Bradford Technical College

DEPARTMENT OF PHARMACY

Fees for Full Courses for the

Chemist and Druggist Qualifying Examination	20 Guineas
Pharmaceutical Chemist Qualifying Examination	20 Guineas per Session
Bachelor of Pharmacy (University of London)	18 Guineas per Session
Preliminary Scientific Examination	15 Guineas

Apply to the PRINCIPAL, TECHNICAL COLLEGE, BRADFORD, for particulars regarding these courses of study.

Cloister
Herbal Tea
AS ADVERTISED

A gentle natural corrective for sluggish bowels. Purifies the blood, promotes sound sleep and regular habits.

BONUS PARCEL *for Display*	
1 of each size BONUS	
1 doz. 7d. size	6. 0.
1 doz. 1/8d. size	18. 0.
	24. 0.
Less 33⅓%	8. 0.
	16. 0.
Less 2½% cash	5.
	15. 7.
Purchase Tax	2. 8.
Cash with order	18. 3.
Selling price of this parcel	29. 3.

Your usual wholesaler will supply less 33⅓% discount, or, bonus parcel for display as detailed alongside supplied direct by us. Attractive showcard enclosed with parcel.

WHOLESALE DISTRIBUTORS WANTED

Campbell Laboratories
1a, TOTTENHAM COURT RD., LONDON, W.1.

a good line...and a good profit

STENHOPE is a new and efficient tonic for the stomach ; a well timed edition to the range of BRONTAN products ; put over with the usual Brontan efficiency. STENHOPE will sell at 2/9 a bottle including P.T., showing 100% profit for the chemist. Supplies are available and display advertisements are appearing in the newspapers. Order from your wholesaler TODAY or direct from Brontan Ltd., 1 Broad Street Buildings, Liverpool St., London, E.C.2

STENHOPE
TONIC *for jaded stomachs*

IMMEDIATE DELIVERY

an 'ASPRO' DISPLAY BRINGS IN THE PASSER-BY!

A new 'ASPRO' public has been growing up in recent years—people who, by practical experience, have come to value the ready help of 'ASPRO' in emergencies. All this growing interest benefits the shop which features A PROMINENT 'ASPRO' WINDOW DISPLAY. People who would otherwise be just "passers-by" become faithful and permanent customers, and their custom is reflected in the general volume of your business.

We look forward to the time when we can send you an entirely new display. In the meantime, if your present 'ASPRO' show is overdue for the salvage bin our stocks are still sufficient to supply you with another of the pre-restriction type illustrated below. Please write us if you need a display or seasonable stickers.

Here is 'ASPRO' *the Current* DISPLAY

MADE IN ENGLAND BY P.A.T.A. ASPRO LIMITED Slough, Bucks.

Wrens (PTY) LTD.
THE CHEMISTS

P.O. BOX 1689 JOHANNESBURG
SOUTH AFRICA

Sole Distributors and Stockists for REVLON EXPORT Corp., NEW YORK, also VIV Pharmaceuticals Ltd., WINCHESTER, England, etc.

SEEK REPRESENTATION for non-competitive Agencies in TOILET, PATENTED and PROPRIETORY PREPARATIONS for the UNION of SOUTH AFRICA,
Northern & Southern Rhodesia, Portuguese East Africa, S.W. Africa and Nyassaland.

For all our Purchases cash payments in London

WE MAKE

the 'Spandit' Dropper Bulb (and washers) in both rubbber and 'Dulin' Synthetic Rubber for the Medical Profession.

The construction of these products is the result of careful and diligent research. They are durable, thoroughly reliable and withstand all chemicals .... a 'Spandit' Product.

"Spandit" DROPPER BULB

Manufacturers who are interested in these products and wish us to go into the possibilities of bulk manufacture should write to us in this connection. We invite enquiries on all Rubber problems.

EMPIRE RUBBER CO
Dunstable, Beds.
Telephone: Dunstable 533

EMPIRE RUBBER CO. DUNSTABLE A Spandit PRODUCT MADE IN ENGLAND

SODIUM ALGINATE

The production of MANUCOL★ brand sodium alginate is restricted by our present plant capacity. New equipment is, however, in process of being installed to deal with the increased demand and, should there be any delay in meeting your requirements, we ask your indulgence. The Albright & Wilson Technical Service is always available to advise on problems of viscosity, suspension, stabilisation and gelling, involving the use of alginates.

★ *Manucol is the registered trade name of Albright & Wilson's sodium alginate.*

ALBRIGHT & WILSON LTD

Chemicals for Industry

49 PARK LANE, LONDON, W.1 *Works: Oldbury and Widnes*

43 ALG

LECIFERRIN ADVERTISING CAMPAIGN

IS NOW IN FULL SWING!

Since July, Leciferrin Lecithin-Iron Tonic is being extensively advertised in the evening and local newspapers in the following concentrated areas:—

SCOTLAND
NORTHUMBERLAND—DURHAM

In addition most of the important women's magazines will be carrying the Leciferrin advertisements. Link up with our concentrated publicity efforts by window or counter displays, and make sure your stocks are adequate to meet the increased demand. Retail price per bottle 5/6½d. inc. tax.

For up-to-date show material write to the manufacturers:—

LECIFERRIN LIMITED,
4, John Adam St., London, W.C.2.

HOUSEWIVES ARE BEING TOLD THAT IT'S OATREX FOR

The question of the hour is food and how families can get the most goodness out of available supplies.

OATREX is giving the answer in wide regional press advertising. It is telling how OATREX, prepared from the finest Scottish oats is rich in valuable 'OATRITION" for building health and vitality.

Retail selling prices: Medium Ground (Green label) 1 lb. and 2 lb. 1/4 and 2/6. Fine Ground (Red label) 1 lb. and 2 lb. 1/5 and 2/8.

A Product of George King, & Co. Limited, Kingsbury, London, N.W.9.

OATREX

KING'S FAMOUS PRE-COOKED OATMEAL

Enquiries to Kings of Kingsbury (Sales) Ltd., 1, London Bridge S.E.1

IT'S NEWS BECAUSE
each week we are producing
1,000,000 TAMPONS
ORDERS TAKEN IN STRICT ROTATION

★ Hygienic Plastic Cap
Medicinal Jelly tipped
Gauze-covered tampon to prevent loose fibres
Super absorbent tampon
Non-absorbent ends to prevent seeping
Undetatcheable non-absorbent cords
Groved tube for definite insertion
Absorbent fibre Outer Tubes for easy disposal
★ Plastic cap to protect tampon

fems
The New Comfy TAMPON
2/6 Carton of 10
& 6D. Handbag Packs

NEW DISPLAY PACK

trade enquiries to :—
fems Surgical Supplies Ltd
306 STOCKPORT RD. MANCHESTER 13 Works :- Grosvenor Street

7½D INC. TAX

Sphagnol

The "NATURAL" SHAMPOO

AVAILABLE FROM ALL WHOLESALERS OR DIRECT FROM :—

Sole Manufacturers

PEAT PRODUCTS (SPHAGNOL) LTD.
3, CARMALT GARDENS, LONDON, S.W.15

Beautisales LIMITED
are in a position to consider one or two extra lines for distribution to the general trade :—
Perfumery, Toilet & Cosmetic Sundries

Send particulars in writing to :
35, Old Bond Street, London, W.1.

AMPOULE FILES
(BRIGHT FINISH and CADMIUM FINISH)
GOOD CUTTING EDGE

Send your orders to :—
JULES LANG & SON
96, HATTON GARDEN, LONDON, E.C.1
Telegraph : "Assorted Phone London" *Holborn 8687 (3 lines)*

PROMPT DELIVERY FROM STOCK

POTOLICS
Lozenges
Relieve Sore Throat
Disinfect mouth
throat, chest
1/–, 1/10, and **12/6** sizes

BESURDY
Antiseptic Skin
Balm
Contains 3 active
antiseptics
Soothing, healing,
Flesh coloured
Rose Perfumed
Deodorising
Non-greasy
GOOD PROFIT
2/– and **3/6** per jar

RED TILE FASHENE
for a deep red and brilliant waterproof finish for bricks, cement, stone, etc.
1/6, 3/6, and **12/6** sizes

GROW MORE HAIR
HELSKA
Dandruff
Remedy
and Hair Tonic
For a healthy scalp
and luxuriant hair
3/6 per bottle

THEAL
For Children's Hair
Removes all vermin in
one application
2/6 per bottle

For a closer, cleaner, smoother, more comfortable shave and a lovely skin
LOSKI
Brushless Shaving
Cream
1/6 and **2/6** jars

GLOREEN
Triple Gloss Hair
Cream for men who
want the best
1/6 and **2/6** per jar

AUTOFASHENE
Car Polish
For a glorious shine
In a fraction of the
time
Beautifies the coachwork, leather and leathercloth upholstery, waterproofs the hood and plated parts
Retails **3/6** per large
tin

FASHENE
Triple Wax
Floor Polish
Gives an easier, quicker, brighter, and longer lasting shine and leaves the hands soft and smooth
1/–, 3/6, and **12/6** per
tin

FASHENE
De Luxe
Furniture Cream
Brings out the beauty of the grain and gives a brilliant wear resisting finish
1/6 and **2/6** Jars

Beauty preparations
of the finest quality by
VANDYK
Brilliantine
Vanishing Cream
Cold Cream
All Purpose Cream
Liquid Cleansing Cream
Setting Lotion
Hand Lotion
Price List on request

MODENE
Shoe Creams
Suede Dressings
Leather Dyes
White Dressings
in all fashionable
colours
Retail **1/–** per jar

RESTORE your
Hair to its original
colour
OR.COL
Brings back
Youthfulness to greying hair
5/6 per bottle

CHYLAX
The gentle laxative
for infants and all ages
3/6 and **6/6** per bottle

Send stamp for details, stating lines in which you are particularly interested, to

The BRITISH SURGICAL & DRUG CO., LTD.
FORTESS GROVE, LONDON, N.W.5. Tel.: Gulliver 3474 (4 lines)

MISCELLANEOUS OPPORTUNITIES

Citrates; Salicylates; Bromides; Iodides; Gums; Waxes, "Spermaceti," etc. Essential Oils; Magnesium; Potassium; Sodium; Acids; Salts; Lanoline; Petroleum Jelly; Stearic Acids; Talcs; Mercurials; Synthetic Vitamins.

All Fine and Heavy Chemicals.

Home and Export.

J. J. VIGON & Co. Ltd.

30 Fenchurch Street, London, E.C.3

Mansion House 2034/5

IMPORTANT FRENCH FIRM WISH TO IMPORT ALL CLASSES OF RUBBER GOODS IN GENERAL DEMAND.

WRITE TO BOX 110/458. C. & D. OFFICE.

French Laboratory manufacturing analgesic ointments, powders, solutions, drops, wishes to open branch in England.

Enquiries to

STEINER

107, RUE DES DAMES, PARIS 17.

PRIDE PRODUCTS

10, PARK SQUARE EAST, LEEDS, 1

Welcome your enquiries for—

SANITARY TOWELS, WOOL and SOLUBLE (with loops)

BLOCK LIQUORICE — BOTTLES

list on application

EXPORT **HARRINGTONS** HOME

BRAND

ASPIRINS

EXCEPTIONAL PROFIT EXCLUSIVE PACK

LONDON OFFICE: 2 BERRIDGE Grn. EDGWARE

CETYL ALCOHOL, superfine perfumery quality available in **56 lb.** and **112 lb. lots,** Ex Warehouse, London.

GLYCERYL MONOSTEARATE finest grade for use in cosmetics, pharmaceutical and food products, in **1 cwt. packages.**

Both for immediate delivery — ***Samples on application***

CHEMICALS & ESSENTIAL OILS LTD.

95, Aldwych, W.C.2 *Phone*: Chancery 6116

Sole selling rights of new lines wanted by large distributing house with sales force covering Great Britain. Lines must be suitable for Chemists, Ladies' Hairdressers and Stores. Advertising campaign will be considered for right lines. Details to British & International Proprietaries, Limited, 30, Budge Row, London, E.C.4. c

---

LARGE PROFITS, UNRESTRICTED SUPPLIES, ***Simple Manufacture.*** Make your own brilliant white Hair cream with the addition of hot water only to Emulsifier HCP. Costs less than 1½d. per oz. Bottles—Labels—Jars—Perfumes—Dyes all available from stock

Send stamp for complete Price list, formula, and special offer

BRICCAS LTD, FORTESS GROVE, KENTISH TOWN London N.W.5. *Gulliver 347*

KLENFEX LABORATORIES LTD.

327, Latimer Rd., London, W.10

OFFER **for immediate delivery**

D.D.T. 80/84%

5, 10, 15, 20% Dusting Powders and 5% Water Miscible Spray Powder

---

F. J. GODDARD **PACKING CASE MAKERS for Home and Export**

Second-hand Cases and Cartons, all sizes

Lowest Prices on application

Telephone: RODney 4181

Factory: **5a Walworth Place, Walworth, London, S.E.17**

D.D.T. Fly Papers — 4½ retail Price which must be adhered to, a limited supply available, Sample GROSS 36/- Carr. Paid, C.W.O. Wholesale Accounts in certain Areas considered.

THE UNITY PACKING COMPANY, The Grange, Oakland Road, Forest Town, Notts.

AGAR AGAR POWDER & LEAF ***FOR SALE***

Buyers write **Box No. 112/519 C. & D. OFFICE**

EXPORT MARKET

PERFUMES SUITABLE FOR BAZAAR TRADE, ALSO OINTMENTS, SHAVING CREAM, ETC.

Details and quotations on application to—

Harman Dietetic Laboratories LIMITED

109, CRICKLEWOOD BROADWAY, N.W.2

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

AUGUST 3 1946

28 ESSEX STREET, LONDON, W.C.2

Prevailing restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. As normal press days are in abeyance advertisers are advised to send instructions as early as possible. Advertisements must be prepaid. Box Office Numbers 2/- extra.

SITUATIONS OPEN

7/6 for 40 words or less, 2d. for every additional word.

RETAIL (HOME)

ACCOMMODATION available in pleasant country district for qualified Pharmacist and wife, in conjunction with a progressive position, of Branch Manager status. Good salary and conditions. Successful applicant must become and remain a member of an approved Trade Union, and join the Society's Superannuation Scheme. Transfer Scheme in operation. Give fullest particulars in first instance to "Pharmacist," Coventry and District Co-operative Society, Ltd., Smithford Street, Coventry.

BRISTOL. Awaiting assistant returning from Forces, pharmacist required for six months. Middle-class business, moderate N.H.I., busy counter, short hours, no Sunday or half-day duties. Board residence ten minutes. Please state age, salary required. Locum applications (part period) welcomed. 113/576, C. & D. Office.

CHEMIST requires assistance pricing stockbooks. Qualified or unqualified. Temporary 3/4 months. London. Apply 111/487, C. & D. Office.

CHEMISTS' Assistants (Ladies) wanted for clerical work in the N.H.I. checking bureau and stock pricing departments. Apply: National Pharmaceutical Union, 4-5 Queen Square, W.C.1.

ELDERLY Qualified Assistant wanted for a good class business. State salary required and experience, etc. Williams & Smith, Chemists, Horsham

EXCELLENT opening is offered to recently qualified gentleman as assistant pharmacist in well established, privately-owned pharmacy in St. Pancras district. Valuable opportunity for experience in all branches of the business. Write or 'phone with view to interview. Doughty, "Al Araf," Dudley Road, Finchley, N.3. (Fin. 3410 or Gulliver 1650).

HAYES, Middx. Pharmacist required to manage busy pharmacy. Good salary paid to suitable applicant. Permanency. Gaylards (Chemists), Ltd., or 'phone 356 for appointment.

HAYES, Middx. Unqualified lady assistant required for busy pharmacy. Good salary paid to right person. Permanency. Gaylards (Chemists), Ltd., or 'phone 356 for appointment.

LADY Assistant, qualified as dispenser in suburban pharmacy. No Sunday or holiday duty. Apply with usual particulars: Parsons & Happold, Ltd., 182 Westcomb Hill, Blackheath, S.E.3.

MANAGER wanted for small good class Pharmacy in the West End of London. Would suit young man or woman recently qualified wishing to gain experience. Apply 112/532, C. & D. Office.

MANAGER wanted for small good class pharmacy in the West End of London. Would suit any young man or woman recently qualified wishing to gain experience. Apply 113/579, C. & D. Office.

PHARMACIST required as manager. Permanency. Good salary to suitable applicant able to commence at once. Lionel Kirby, Ltd., 261 Dewsbury Road, Leeds, 11. 'Phone 75696.

ORRIDGE & COMPANY EMPLOYMENT Agency, Columbia House, Aldwych, W.C.2. Chancery 6446-7. Branches at Southampton and Birmingham. Enquiries invited from all employers seeking staff. Many pharmacists and unqualified assistants available for retail and wholesale. Representatives also requiring situations. Reasonable terms. Write to Columbia House for particulars.

PHARMACIST, man or woman, required; duties chiefly dispensing, also well educated girl to assist in dispensary. Locum from August 26th for three weeks. Apply: Staff Controller, William Whiteley, Limited, Queensway, Bayswater, W.2.

PHARMACIST wanted to manage a quick cash business. Outdoor hours 8.30 a.m. to 6 p.m. All round knowledge. Staff 5 or 6. Salary £8 to £10 per week. Expenses paid for interview. Full particulars first letter. Apply J. Milner, 209 Trafalgar Road, Greenwich, S.E.10.

QUALIFIED Assistant (male), good dispensing experience essential. Permanent. Living accommodation available. Cocks & Dunsford, Castle Circus, Torquay.

QUALIFIED Lady Assistant required for central pharmacy, no Sunday or half-day duties. Progressive permanent position. Good salary and conditions. Apply stating age, experience, together with references, to the Secretary, York Co-Operative Chemist's Society, Ltd., 22 Railway Street, York.

SECOND qualified lady dispenser book-keeper required for general practice pleasant North London district; weekly half-day, alternative week-ends, no Sundays. Apply, with copies of testimonials, Box 110/467, or telephone in the evenings of Monday, Wednesday or Friday *only*, Hillside 1841.

THE Royal Arsenal Co-operative Chemists have vacancies for qualified and unqualified pharmacists, in their branches throughout south-east and south-west London. Good conditions of service and holidays with pay. Trade union rate of wages. Apply in writing stating age, experience and salary required, to the Staff Manager, Royal Arsenal Co-operative Chemists, 113 Powis Street, Woolwich, S.E.18.

TIMOTHY WHITES & TAYLORS, LTD., have vacancies for experienced unqualified assistants for dispensing and counter duties at a number of pharmacies including Dover, Tunbridge Wells, Oxford, Maidenhead, Leamington, Banbury, Ashford (Kent) and in several districts of London. Good salaries paid to first class men. Convenient interviews arranged. Apply with full particulars to Retail Staff Manager, Timothy Whites & Taylors, Ltd., 70, Vauxhall Bridge Road, S.W.1.

TORQUAY. Assistant required mainly for dispensing. Good working conditions, permanency. Full details to Jessop, Chemist, 9 Horton Road, Torquay.

TWO Qualified Managers required for reopening West End pharmacies. Comfortable posts. Hours 9 a.m.-6 p.m. Half day off, no Sunday duty. Write 112/517, C. & D. Office.

UNQUALIFIED assistants (male) required. West End. High class trade. No Sunday duties. Write 112/518, C. & D. Office.

TIMOTHY WHITES & TAYLORS have vacancies for Qualified Pharmacists as managers in various parts of the South of England, including the greater London area. Responsible posts with good progressive salaries are available to capable men. Interviews are arranged to suit applicant's convenience. Apply giving full particulars to Retail Staff Manager, Timothy Whites & Taylors, Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

UNQUALIFIED Assistant required to assist in laboratory. Able to manufacture galenicals and proprietaries and to interview doctors and works chemists. Apply P. Jeyes & Co., Ltd., 6, The Drapery, Northampton.

UNQUALIFIED Assistant, with dispensing experience, wanted for busy pharmacy. Comfortable post offering excellent oportunities for experience. Easy hours, other staff kept. Full details, salary, etc., first letter. J. B., c/o Lester & Williamson, Ltd., Chemists, Great Heath, Coventry.

WANTED, Dispenser for "Leicester United Friendly Societies Medical Association," fully qualified for National Health Insurance Dispensary. Apply Secretary, Mr. W. E. Love, 114, Highcross Street, Leicester.

WINDSOR. Qualified Assistant, lady or gentleman, for good-class busy dispensing business. Apply, with particulars as to experience, salary required, etc., to Wood, Chemist, Windsor.

YORKSHIRE. Marsden Equitable Industrial Society invite applications from qualified persons as the Society's Superintendent Chemist. Permanent position with good prospects, Superannuation Scheme in operation, no Sunday or half-day holiday duty, adequate staff. Applications stating full particulars to be received not later than August 1 addressed to the Secretary, 2 Brougham Road, Marsden, Nr. Huddersfield.

LOCUMS WANTED

LOCUM. Pharmacist, lady or gent., required Aug. 12-24. Efficient staff. Easy hours and easy duties (mainly simple dispensing). W. M. Nicoll, The Bridgnorth Pharmacy, Bridgnorth, Shropshire.

LOCUM, Qualified (male), required 6 to 8 weeks August, September or October. Dispensing business. Cocks & Dunsford, Castle Circus, Torquay.

RETAIL (OVERSEAS)

TWO qualified assistant Chemists required for departmental store in Ceylon. Age 25 to 30, four-year agreement, free medical attention. Passage paid. Write, giving fullest details as to age, experience, etc., to Box A997, c/o Street's, 110 Old Broad Street, E.C.2.

WHOLESALE

A COMPANY marketing attractively packed medicated products of a very high quality invite salesmen who have connections with the grocery and allied trades, in Staffs., Derby., Salop., Worcester, Oxford., Bucks., Berks., Kent, Surrey and Sussex, to make an application for the sole representation in defined territorities. Payment is on a generous commission only. Application, giving fullest particulars in confidence, area covered and other lines carried, will be entertained.113/568, C. & D. Office.

ANALYTICAL chemist required by well-known London manufacturers. Must be conscientious worker and hold either pharmaceutical qualification or B.Sc. Practical experience of general routine analysis essential. Apply in writing, giving full details of age, experience and salary required, in first letter to 113/577, C. & D. Office.

ASSISTANT with knowledge of pharmaceutical goods, heavy and fine chemicals, export trade, urgently required by rapidly expanding London import and export merchants (Chemicals Department). Progressive post. Applications to 113/549, C. & D. Office.

AN old established Provincial Firm of Manufacturing Chemists invite applications from a man or woman with experience to take charge of the packed goods department. Some knowledge of the proprietary trade an advantage but not essential. Applicants should be able to control staff and be capable of working on own initiative. Full particulars of experience, age and remuneration expected to: 112/536, C. & D. Office.

ASSISTANT required for responsible post in export sales organisation of well-known manufacturers ethical pharmaceuticals. Young man not necessarily qualified but with scientific background willing to serve overseas eventually. Excellent prospects of advancement for capable man. Apply stating age, education, qualifications and experience to 113/544, C. & D. Office.

A UNIQUE opportunity has arisen for the appointment of a personal assistant to the sales manager to a toilet goods manufacturer. The applicant chosen will receive a thorough training in successful sales methods, and will have ample opportunity to develop his ambitions. His age should be 18 to 25. Only those having a reserve of initiative energy and loyalty need apply. 112/520, C. & D. Office.

CHIEF Chemist required by leading cosmetic and pharmaceutical manufacturers. Highly qualified and thoroughly experienced. Required to devote majority of time to research but also to take responsibility for manufacture, buying of raw materials and direction of work for two qualified assistants. Commencing salary over four figures and prospects for right man unlimited. Write stating age, qualifications, posts held and present salary. Strictest confidence. 111/504, C. & D. Office.

ENERGETIC young man (25-35), of good appearance and pleasing personality, residing in or near Manchester and Nottingham, wanted as Representative by well known London firm for calling on doctors, dentists and chemists. Intelligence and character of more importance than experience. Commencing salary £350, plus expenses. Full particulars in first instance to Box No. 863, Spottiswoodes, Regent House, Kingsway, London, W.C.2.

EXPERIENCED Tablet Maker required for London House. Permanent and progressive opportunity. Write full particulars. 113/567, C. & D. Office.

EXPORT Invoice Clerk-Typist for Manufacturing Chemists, N.W. London. Good prospects, previous experience essential. Write full particulars, age, salary required, etc. 113/565, C. & D. Office.

EXPORT Clerk required to assist Manager, Manufacturing Chemists. Applicants must be experienced in invoicing and familiar with export regulations, accurate at figures with shipping experience. Excellent prospect for conscientious, hard worker. Experience in the preparation of returns and statistics an advantage. Applications stating age, if married, particulars of experience, salary required to Box No. 935, L.P.E., 110 St. Martin's Lane, W.C.2.

FOREWOMAN for manufacturing chemists to supervise packing of medicinal and cosmetic products. Apply Markwell, Edwards and Co., Ltd., 589, High Road, N.12.

LADY Pharmacist required by well-known firm of Pharmaceutical Manufacturers, near London, to assist in Ampoule Department. Ability to control female staff essential. Reply, giving details of previous experience, to Box 110/464, C. & D. Office.

MALE or female Cost and Invoice Clerk required. Must be fully conversant with Surgical Sundries. Write stating experience and salary required to the Medical Supply Association, Ltd., 167 Grays Inn Road, W.C.1

REPRESENTATIVES. Commission basis, established lines, South England, London, East Coast, S. Wales, Potteries. Red Band Chemical Co., Ltd., 16 Young Street, Edinburgh.

PILL MAKER required for London Manufacturing House, to understudy foreman with a view to taking full control of department in near future. Excellent opportunity for man of ability. Write full particulars, experience, salary required, etc. 113/566, C. & D. Office.

REPRESENTATIVE required for well-known Luxury Toilet Preparations (A-Class) to be carried as an additional line on commission basis, to call on Chemists, Hairdressers, Department Stores (Perfumery and Drug Section) for various provincial areas. Only those who are well introduced to retailers should apply stating present lines carried and names of firms represented. Enclose reference in first letter. 104/246. C. & D. Office.

REPRESENTATIVE required. Applicants must be chemists, with previous experience an advantage. Apply Managing Director, Hirst, Brooke & Hirst, Ltd., Sheepscar Works, Leeds, 7.

REQUIRED by well-known Company of Manufacturing Chemists, N.W. London, a Works Foreman, or Chemist, possessing extensive tableting and manufacturing experience: used to the handling of pharmaceutical plant. Permanent and progressive position, with excellent prospects for the right man. Please give experience, age, salary required, etc., in strict confidence to 110/451, C. & D. Office.

SALESMEN required for most areas to sell to chemists and hairdressers best quality raw materials for manufacturing toilet goods. Large range of goods available including bottles and jars. Only first-class salesmen who can prove results who will be given liberal drawing account during trial period need apply. Salary, commission and expenses after trial. Send full details. 112/521, C. & D.

SEVERAL representatives required to carry high-class toilet specialities as additional lines on commission basis, to call on chemists, hairdressers, departmental stores, Co-ops., etc. for various provincial areas. Only those who are well introduced to retailers should apply, stating present lines carried and names of firms represented, in strict confidence. 113/572, C. &. D. Office.

STOCK Keeper or Order Clerk required for Surgical Sundry Dept. Only fully experienced need apply, male or female. Permanent position assured. Write giving full particulars and salary required to The Medical Supply Assn., Ltd., 167/173 Grays Inn Road, W.C.1.

TABLET Maker required by London Wholesale Druggists. A knowledge of pearl and sugar coating would be of advantage. 112/529, C. & D. Office.

TABLET Maker required by a London firm of Manufacturing Chemists. Applicants must have had experience of all kinds of Tablet making and Sugar coating and must understand Rotary machines. 5-day week. Apply in the first instance to Box 110/466, C. & D. Office.

TABLET Maker required by manufacturing chemist, West London. 5-day week. Details of experience and salary required to Box 205, Smiths', 100 Fleet Street, E.C.4.

TRAVELLERS wanted to handle additional quick-selling lines, must have connection with chemist shops and departmental stores. Box PP.2812, Samson Clark, 61 Mortimer Street, W.1.

YOUNG Man required for Tablet machines and granulating, etc., no coating. Good post for right man. Apply, stating experience and salary required, to Popular Medicines, Limited, Loates Lane, Watford.

YOUNG Pharmacist required at once for the pharmaceutical manufacturing department of a small ethical firm in London. Previous experience not essential. Good prospects. 112/530, C. & D. Office.

WHOLESALE (OVERSEAS)

BRITISH WEST AFRICA. Well known British manufacturers chemicals and medical specialities require young pharmacists with good knowledge of therapeutics for medical propaganda work in West Africa. Apply, stating age, education, qualifications and experience, to 113/542, C. & D. Office.

INDIA AND FAR EAST. Chemical Manufacturers of international repute invite applications from men aged 25-35 for service overseas. Pharmaceutical qualification desirable but not essential provided candidates have sound pharmaceutical experience. No marriage bar. Apply, stating age, education, qualifications and experience to 113/543, C. & D. Office.

INDIA. Parke, Davis & Co. require young, unmarried, energetic pharmacists as medical representatives in India. Intensive training in England will be given before proceeding overseas. The opportunities for advancement are excellent. Apply, by letter only, giving complete details, to "India Dept.", 50 Beak Street, London, W.1.

OLD Established Manufacturing Chemists invite applications for the post of Works Manager in their overseas factory. Experience in the production of pharmaceutical products essential, and the post carries a seat on the board of directors. Residence provided. Write in first instance with details to 113/560. C. & D. Office.

OLD Established Manufacturing Chemists require a representative for India, preferably with experience in India or the Far East in the sale of pharmaceutical preparations. Duties will include control of native Indian representatives. Write in first instance to 113/561, C. & D. Office.

WELL known firm of manufacturers of pharmaceutical preparations requires the services of a representative in India. Applicants must have had similar experience in India and be capable of organising and controlling other representatives, some of whom will be native Indians. Apply, stating age, experience and salary required, to 108/399, C. & D. Office.

SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word.

RETAIL (HOME)

DISPENSER, Lady, Hall Certificate, 5 years' experience, seeks post Scotland, chemist or doctor. 111/495, C. & D. Office.

DUTCH girl, 21, chemist's assistant, desires employment in doctor's family as assistant and lady's help. T. C. Groot, Hamerstraat 16, Amsterdam, N., Holland.

LOCUMS SEEKING ENGAGEMENTS

PHARMACIST free for locum from Aug. 6th in South and South-West England. Particulars, dates, terms to 113/583, C. & D. Office.

WHOLESALE

ACTIVE Man, with experience production, manufacture, toilet, cosmetics, retail and wholesale pharmaceutical experience requires situation working foreman or similar capacity. Trustworthy, excellent refs. "Tact", 112/531, C. & D. Office.

ACTIVE Representative, age 33 years, seeks position with house of repute. 112/538, C. & D. Office.

CHEMIST, many years' experience in manufacturing, control of labour and finishing, adaptable, formulas for big selling lines, like to change. Only good salary and commission in introduced lines. Box 111/483, C. & D. Office.

ESTABLISHED Representative (age 33), covering Liverpool area, requires good proprietary lines, or any others with potentiality, salary or commission basis. 112/537, C. & D. Office.

EIRE. Well-known Representative (L.P.S.I., hons.), after eight years with prominent British house calling on chemists in Eire, seeks change. Would represent British or Irish house or would consider first-class sole agencies. Age 33. Own car. Capable and energetic. Box 110/472, C. & D. Office.

EX-REGULAR R.A.F. N.C.O., experienced in handling staff, knowledge of transport organisation and general storekeeping, qualified driver including heavy goods vehicles, requires situation London district. 113/545, C. & D. Office.

SALES Manager (M.S.M.A.). Wide experience of marketing, and general business management desires change. Enquiries invited. 111/501, C. & D. Office.

WELL-INTRODUCED Representative (27) desires career with house of repute. Known to some 4,000 pharmacists, doctors, dentists throughout South-Eastern and Eastern Counties. Experienced propaganda detailing (trade and professional). Highest references. Car driver. Willing to travel. 113/546, C. & D. Office.

EXPERIENCED Traveller, retail chemists, London area, requires one additional line in packed goods; commission basis. 113/584, C. & D. Office.

WHOLESALE (OVERSEAS)

LADY Pharmacist, 26, single, with wide experience as manager in retail pharmacy desires position abroad, preferably Australia, New Zealand or South Africa. 113/574, C. & D. Office.

APPOINTMENTS

THE BOLTON ROYAL INFIRMARY AND EDMUND POTTER HOSPITAL

(Total 288 beds)

ASSISTANT DISPENSER required, male or female. Apothecaries Hall qualification and hospital dispensing experience preferred. Salary in accordance with National Joint Council for qualified assistants, minimum £220 per annum, with inclusion in Superannuation Scheme. Please state age, experience and forward along with other particulars, including copies of two recent testimonials, before August 13, 1946, to

JOSEPH GRIFFITH,
Superintendent Secretary.

CROWN AGENTS FOR THE COLONIES

COLONIAL GOVERNMENT APPOINTMENTS

Applications from qualified candidates are invited for the following post:— PHARMACIST required by the Government of British Guiana for the Medical Department for one tour of 2 years with possible permanency. Salary £500 x £25-£600 a year. Lecture fees about £50 a year. Free passages. Candidates, not over 35, must be Members of the Pharmaceutical Society and preference will be given to candidates holding either a University Degree in pharmacy or the higher qualification of the Pharmaceutical Society (Ph.C.). Hospital and teaching experience would be an advantage. Apply at once by letter, stating age, whether married or single and full particulars of qualifications and experience to the Crown Agents for the Colonies, 4 Millbank, London, S.W.1, quoting M/N/14336.

CHEDDLETON MENTAL HOSPITAL, NR. LEEK, STAFFS.

DISPENSER required with Apothecaries Hall Certificate; resident or non-resident. Salary in accordance with Recommendations of Joint Negotiating Committee (Hospital Staffs). Appointment subject to Provisions of Asylums Officers' Superannuation Act. Applications to the Medical Superintendent.

BRADFORD EDUCATION COMMITTEE, TECHNICAL COLLEGE, BRADFORD

Applications are invited for appointment as ASSISTANT LECTURER in CHEMISTRY PREFERABLY WITH QUALIFICATION IN PHARMACEUTICAL CHEMISTRY in the College. Basic salary according to the Burnham Scale, which is from £300 to £525 per annum. Commencing salary according to qualifications and experience. The commencing salary may, subject to approval, be increased up to a maximum of ten increments of £15 per annum in respect of approved service in industry. Further particulars of the appointment and forms of application may be obtained from the Director of Education, Town Hall, Bradford, and completed forms should be returned to the Principal of the College within two weeks of the publication of this advertisement.

THOS. BOYCE,
Director of Education.

BROMPTON HOSPITAL, S.W.3

Applications are invited for the post of First Assistant Pharmacist. Salary in accordance with the recommendations of Joint Negotiating Committee. Federated Superannuation Scheme in force. Applications, stating age and previous experience, and accompanied by copies of three recent testimonials, must reach the undersigned, from whom further particulars of the post may be obtained, not later than Monday, September 2.

F. G. ROUVRAY,
Secretary.

HERTFORDSHIRE COUNTY COUNCIL SHRODELLS HOSPITAL, WATFORD

ASSISTANT PHARMACIST, M.P.S., required at Shrodells Hospital, Watford. Salary and conditions of service in accordance with the Scale of the Joint Negotiating Committee (Hospital staffs), *i.e.*, £320 p.a. x £15 to £380 and £20 to £400 maximum. Forms of application may be obtained from the Chief Administrative Officer.

QUEEN MARY'S HOSPITAL FOR THE EAST END, STRATFORD, LONDON, E.15

SECOND ASSISTANT PHARMACIST. Applications are invited from Registered Pharmacists for this appointment. Salary in accordance with the scale approved by the General Negotiating Committee (Hospital Staffs), £320 p.a. with annual increases up to £400 p.a. Applications, giving full particulars of age, qualifications and experience, and accompanied by copies of recent testimonials, should be sent to the House Governor and Secretary not later than August 22, 1946.

ROYAL EYE HOSPITAL, SOUTHWARK

Assistant Dispenser required for above Hospital; must be fully experienced, salary according to British Hospitals Association scale. Copies of three testimonials to accompany application which should be received on or before August 13. Secretary, Royal Eye Hospital, St. George's Circus, London, S.E.1.

SURREY COUNTY COUNCIL

ASSISTANT PHARMACISTS at:— KINGSTON COUNTY HOSPITAL, Wolverton Avenue, Kingston-on-Thames, BOTLEYS PARK HOSPITAL, Chertsey. Must possess Ph.C. of Chemist and Druggist qualification, salary on grade £320 by annual increments of £15-£400 p.a. inclusive. Apply to Medical Superintendent of appropriate Hospital.

RAMPTON STATE MENTAL INSTITUTION, NR. RETFORD, NOTTS.

WANTED. PHARMACIST (Female). Scale of Salary:— £250 x £15 x £325 per annum (basic), plus consolidation addition, making it £313 at the minimum and £397 at the maximum, plus quarters (consisting of a bedroom and sitting room) valued at £40 per annum for Superannuation purposes. Food is provided at cost price (at present 14s. per week). Subject to the issue of a certificate of qualification by the Civil Service Commissioners the post would be pensionable under the Civil Service Superannuation Acts. Further particulars will be provided on request. Amenities such as tennis courts, badminton and a swimming pool, etc., are available free of charge.

Applications, stating age, experience and references, etc., should be sent to the Medical Superintendent.

BUSINESS OPPORTUNITIES

12/6 for 36 words or less, 3d. for every additional word

APPLICATIONS invited from firms possessing electrically driven powder mixers and fillers to manufacture established (licensed) washing powder under contract. Plant should be capable of producing not less than 25 tons per week. Replies to 112/534, C. & D. Office.

FIRM of Tablet Manufacturers with well-equipped plant are now able to undertake the manufacture and packing of any sized tablets. Customers' own material preferred. Excipients supplied. Contracts arranged if desired. 108/387, C. & D. Office.

TABLETING capacity available. First-class work guaranteed. 112/539, C. & D. Office.

BUSINESSES WANTED

7/ 6 for 40 words or less, 2d. for every additional word.

HILLIER, PARKER, MAY & BOWDEN, Surveyors and Valuers, 77 Grosvenor Street, W.1, have applications for several sound and progressive single-shop Businesses occupying premier trading positions in London and Provinces, or a Group Concern would be seriously considered. Others contemplating sale or their solicitors are invited to write for further information to Hillier, Parker, May & Bowden, 77 Grosvenor Street, W.1.

NORTHERN Tablet Manufacturing Concern, successful, will purchase confectionery and medical lozenge manfacturing business entirely or 50 per cent. share. Must be situated in Manchester or Bolton areas. 113/573, C. & D. Office.

BUSINESSES FOR DISPOSAL

7/6 for 40 words or less, 2d. for every additional word

FOREST GATE, corner shop and house, freehold, for sale. Was chemist shop previous to damage by blast. Excellent position. House being repaired. Purchaser can get priority for shop repairs. 113/564, C. & D. Office.

IPSWICH. Main road D.F. Shop, Shop parlour, kitchen, scullery, two bedrooms, two attic rooms and yard. Herbalist and Druggist Sundries. Opened on Nov. 1, paying business. Agreement three years with option. All electric fittings and electric cooker own property. New shop blind. House completely furnished. Reason for sale, going abroad. Stock fixtures, fittings and home £600. Particulars to 87B St. Helen Street, Ipswich.

SOUTHPORT. To be sold, Chemist's Business, as a going concern, established about 80 years together with a very choice residence (999 years' lease free of ground rent) with beautifully laid-out gardens including full-sized tennis court. Apply to Daniel Percival, F.A.I., 150 Lord Street, Southport. Tel. 2923.

LONDON, S.E. General retail business comprising grocery, sweets, tobacco and drug and toilet lines. Turnover approx. £3,500 p.a. Lock-up shop. Price £750 all at, or reasonable offers considered. 112/541, C. & D. Office.

MERSEYSIDE. Established chemist's and optician's business, main road position, well stocked and good quotas, takings approx. £80 weekly at excellent profits, considerable scope for further increase. Price for goodwill, stock, fixtures, fittings, motor car, etc., £4,250 or near offer. Personal interviews preferred for negotiations. 113/578, C. & D. Office.

AGENCIES

12/6 for 36 words or less, 3d. for every additional word.

ADVERTISER, resident Bombay, with large business connection in India is prepared to undertake representation of first-class manufactures. Full particulars to Box 187, Strand House, London, W.C.2.

AGENT calling on Chemists required to carry as an additional line small bottles and jars, 113/569, C. & D. Office.

AGENT required to handle the selling of extensive line of all glass and glass and metal hypodermic syringes, 1 c.c. to 20 c.c. for wholesale chemists, hospitals, doctors, etc. Reply at once to Ballbrook Surgical Instrument Co., 94 Market Street, Manchester 1.

IMPORTANT Spanish Distiller and Exporter of Essential Oils and Crude Drugs require well introduced and active selling agent established in London for the United Kingdom. Write to Manuel Alvarez Moreno, Madrid, Spain, Adrian Pulido 7-9.

INDIA. Advertiser, resident Bombay, with large export and import connections is prepared to undertake the representation of first-class manufacturers. Full particulars to Contractor Bros., Ltd., Mukund Mansion, Bombay, 14.

LARGE Canadian Sales Agency, 14 distributing warehouses, coast-to-coast sales coverage, wishes to represent manufacturers of pharmaceutical specialities, household medicinal products, toilet sundries, etc. Write Laurentian Agencies, 429 St. Jean Baptist Street, Montreal, P.Q., Canada.

MANUFACTURERS of a new device for infant feeding invite inquiries from agents and sales organisations, requiring an additional line. Full details of the scope and areas covered by existing business should be stated. 113/563, C. & D. Office.

TRAVELLERS, all areas, calling on Chemists, required to sell plastic toilet goods on 7½ per cent. commission basis. Keen prices. Other cosmetic lines available shortly, also fancy goods. Details of connection and territory to 112/535, C. & D. Office.

WELL organised concern, capable of handling all classes of drug, fine chemicals, packed pharm. surgical products, etc., seeks exclusive representation for British manufacturers in Siamese territory. C.I.F. terms to any amount. Complete and efficient sales organisation. Correspondence invited. Write 110/456, C. & D. Office.

WELL-KNOWN Manufacturers and distributors in Eire are open to consider agencies for reputable chemical and pharmaceutical manufacturers. They are also prepared to manufacture under licence. Their travellers call on chemists, wholesale and retail stores, Co-operative Societies, etc., all over Eire. They also call on surgical and medical specialists, general medical practitioners and dentists. Please address all inquiries to CD Box 506, c/o Erwoods, Ltd., 30 Bouverie Street, London, E.C.4.

WANTED

7/6 for 36 words or less, 2d for every additional word.

A FIRM of selling agents open to offers of cosmetic and beauty preparations of all types. 112/515, C. & D. Office.

A GOOD price offered for Cameras, Enlargers and all Photographic Apparatus, Exposure Meters, Tripods, good Binoculars, Microscopes, Cine-Cameras and Projectors, prompt cash. Wallace Heaton, Ltd., 127 New Bond Street, London, W.1.

AUTOMATIC Cream Filler wanted at once; big price paid. Shavex Co., Bavaria Road, Holloway, N.19.

BOTTLES, 4-oz., urgently required. Ozonol Laboratories (1930), Ltd., New Wharf Road, N.1. Telephone: Terminus 3727.

BOTTLES, No. 3 Tablet Size, screw caps, urgently required, up to 200 gross wanted. Samples and prices to: Three Crowns Tablet Company, 21-25 Derringham Street, Hull.

BOTTLES Required. 4 oz. plain or panel, 8 oz. tables. 8 oz. ribbed lotions. Cork mouth or screw cap. Good price paid. Nicoll, The Bridgnorth Pharmacy, Shropshire.

DISTRIBUTORS, LTD., Crown Court, Crown Street, Halifax, desire to purchase cosmetics, packed specialities, surgical dressings, hair nets, etc. Samples and prices to the above address.

EDIBLE Sheet and Powdered Gelatin required in large quantities. 965/970, C. & D. Office.

GAMBOGE, wanted for export orders, any size parcels, offers to 113/547, C. & D. Office.

LACTOSE B.P. Any quantities, will purchase or exchange for saccharin tablets. Reply 79 Leeside Crescent, Golders Green, London, N.W.11.

MANUFACTURERS require, for own use, regular quantities (large or small) of Lactose B.P., or Edible and Citric Acid. 106/328, C. & D. Office.

ONE drachm and ½ oz. Perfume Bottles for Export. Will buy or exchange for 1 oz. or 2 oz. Toilet Bottles or other types. Harman Dietetic Laboratories, Ltd., 109, Cricklewood Broadway, N.W.2. Telephone Gladstone 1084.

ROTARY Tablet Machine, Stokes or Manesty, D.3 wanted. Full particulars to Hirst Brooke & Hirst, Ltd., Sheepscar Works, Leeds, 7.

SEEDS drawers wanted; any quantity. Sowerbutts, Ltd., Ashton-under-Lyne.

STEARIC Acid Triple Pressed required in large quantities. 965/969, C. & D. Office.

STEARINE. Large quantities required. Melting points 118 F. to 132 F. Offers and quantity to 109/424, C. & D. Office.

WANTED. ¼ oz. and ½ oz. flat aluminium tins. Quantity and price. 113/548, C. & D. Office.

WANTED. 1 oz. to 4 oz. toilet bottles in large quantities. 113/562, C. & D. Office.

WANTED, .550 Saccharin Powder, also bulk supplies Standard Saccharin Tablets. Large or small quantities taken. Replies to W. Pearce, 143 Endike Lane, Hull. Tel. No. 10986.

8 OZ. Plain Medicals, 8-oz. ribbed Ovals, 2 2½-oz. Panels; divisioned Cartons to hold any of these. Samples and prices to S. Tatlow & Co., Ltd., Eckington, Sheffield.

26 OZ. and 13-oz. Wine or Champagne Bottles required. 625/524, C. & D. Office.

EXPORT TRADE

CZECHOSLOVAKIA. Pharma-Bayer (formerly a branch of I.G. Farbenindustrie—now entirely under Czech control), one of the leading concerns in the country, handling pharmaceutical products, packed proprietaries, agri-horticultural preparations, hospital supplies, surgical dressings and equipment, veterinary products, etc., is open to represent first-class British firms desirous of doing business in Czechoslovakia, Rumania, Jugoslavia, Greece and Turkey. Complete organisation with first-class contacts. Excellent distribution and stocking facilities are available. Representative will shortly be in the U.K. and will be able to give detailed information. Only first-class firms will be considered. Write in first instance to 113/571, C. & D. Office.

ETABLISSEMENTS Docteur Tebbi, Nasse Khosrow, Saraye Rowchan Teheran, Iran, wis to contact manufacturers of all Chemical and Pha maceutical Products and Photographic goods, wit a view to representations and exclusive Agencie References The Imperial Bank of Iran Teheran an Bank Melli Iran Teheran, Iran.

MANAGING Director of Export Firm is visitin South Africa shortly and invites propositio from manufacturers and other Houses in th country interested in developing exports in th market. 108/401, C. & D. Office.

MANUFACTURERS of pharmaceutical produc interested in developing Indian market pleas contact leading firm with branches all over India Rep. now in London. 113/580, C. & D. Office.

REPRESENTATIVE, transferring to Canad shortly as Agent requires further lines fro British firms. Telephone Tideway 4037.

MISCELLANEOUS SALES

12/6 for 36 words or less, 3d. for every additional word

EARTHENWARE Jars and Bottles for sale Various sizes from ½ pint to 3 gallons. Con siderable quantities available. Gunn, Whitepost London Road, Rayleigh, Essex.

FLYPAPER Manufacturer wishes to dispose o plant comprising Batterie 20 machines. Pleas refer to 112/540, C. & D. Office.

FOR Sale, number of flat-top Trolleys, 2ft. 11in long x 14 in. high, oak tops, four 10 in. dia rubber-tyred wheels. £4 4s. each delivered. Ree Brothers (Engineering), Ltd., Cuba Street, Mill wall, London, E.14.

FOR SALE. Stone Jars, 46 of 3-gallon. 22 of 2 gallon, 17 of 1-gallon, 4 of 4-gallon. Offers t Lorimer-Marshall, Ltd., Britannia Works, Col Blow, New Cross, S.E.14.

FOR SALE. Two 6 ft. x 29 in. mahogany slopin lift-up glass top counter cases. Perfect condi tion. Seen at "Nageless", 8/12 Broadwick Street Wardour Street, W.1.

FOR SALE. 250 gross Composite Drums suitabl for packing powders, size 1½ in. x 3½ in., domed sliplid, perforated and sealed. 7s. 6d. per gross carriage paid. Grattan's Pharmaceutical Products Lurgan, N. Ireland.

FOR SALE. 250 gross 2 oz. plain sliplid tins packed in 12 gross free containers. 6s. 6d. pe gross, carriage paid. Grattan's Pharmaceutical Pro ducts, Lurgan, N. Ireland.

HALF-OUNCE Poison Bottles, hexagonal, ambe screwmouth, 250 gross. 112/533, C. & D. Office

SPECIE Jars, in good condition, with gilt meta caps, 24 in. x 15 in., 'Rhubarb.', 22½ in. x 14 in. 'Pot. Bitart.' 21 in. x 10 in 'Magn Carb.', 21 in. x 10 in., 'Ras. Corn. C.' Offers to: Eucryl, Ltd., Southampton.

TRIENTHANOLAMINE, Pure, 6 x 7 lbs. Tins, 10s. per lb., carriage paid. 80 gross glass butte dishes, 3 in. diameter, 42s. per gross. 5 gross pe case, immediate delivery. Lever, 51D New Briggate, Leeds, 1.

5 MILLION Aspirin Tablets B.P. for sale, in bulk, immediate delivery in one lot or less. Wha offers. 113/575, C. & D. Office.

SALES BY AUCTION

Removed from Croydon, Richmond, &c., for sale convenience.

2/5 LITTLE BRITAIN (close to G.P.O.), LONDON, E.C.1.

Modern SHOP EQUIPMENT, Chemists' Counters, plate glass showcases, Mirrored screens, mirrors, National Cash Register, &c.

B. NORMAN & SON

will Sell by Auction at their Sale Rooms as above, Wednesday, August 14th, at 1.30 p.m. View day prior. Catalogues on application MON. 8501.

Printed by THE HAYCOCK PRESS, LTD., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, MORGAN BROTHERS (PUBLISHERS), LIMITED, at 28 Essex Street, Strand, London, W.C.2. (61/31

Why THE NAME ?

The increasing popularity of Imperial Leather fine toilet soaps during the past few years has aroused interest in the origin of the name. As many of our friends will know, 'Imperial Leather' is derived from the name of the particularly attractive perfume which, allied to other rare qualities, has done so much to win for Imperial Leather Toilet Soaps their accepted place in the markets of quality.

Cussons SONS & CO., LTD., KERSAL VALE, MANCHESTER 7

Cox of BRIGHTON

A Name that stands for

DEPENDABILITY

PILLS · TABLETS

PACKED OR BULK

TO SPECIAL FORMULÆ

Arthur H. Cox & Co. Ltd.

MANUFACTURING CHEMISTS FOR OVER A CENTURY

BRIGHTON

Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2.